



BOSCH

AVENAR panel series

it

Guida al cablaggio

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1 History

1.1 1.0

Creation

1.2 2.0

Changed

ADW-535-2 | ASD-535-2 -> FLM-420/4-CON (correction, shield correction)

ADW 535-1 | ASD-532 | ASD 535-1 | OSID | thefirebeam -> FLM-420/4-CON (shield correction)

FAS-420 | FAS-420-TM-> LSN 0300 A (shield correction)

FCS-320-TM | FCS-320-TP | FCS-320-TP1 | FBF 100 -> LSN 0300 A (shield correction)

Fireray50RV/100RV | FIRERAY3000 | FIRERAY5000 (shield deleted)

FLM-420-O1I1 -> LSN 0300

FCS-320-TP2 -> FLM-420/4-CON, CZM 0004 A (power supply)

FCS-LHD-2 (Alarmline II) -> FLM-420/4-CON (power supply)

DS 10 -> NZM 0002 A (ELS), FCS-320-TP2 + FLM-320-EOL4W-> CZM 0004 A, UniVario ->

FLM-420/4-CON, 3 x ELS principle (correction of swapped wires)

Editorial changes: FCS-320-TM series, FCS-320-TP1 series (symbols), User notes updated, 3 duplicates removed

Loeschanlage -> RMH 0002 A (FB2, VKA2 + Montagesatz 10DA added)

Reset action

5 x FAT4000 (shield)

MSS 300-WS -> FLM-420/4-CON, MSS 300-WS -> CZM 0004 A (3k92 according installation guide)

Deleted

37 x 2-wire cabling -> CZM 0004 A

2 Avvisi

2.1 Contenuto

La presente guida al cablaggio illustra le modalità di collegamento dei dispositivi periferici alla FACP.

**Avviso!**

I collegamenti descritti in questo documento sono validi anche per la AVENAR panel 2000, a condizione che i singoli componenti siano estensioni approvate da Bosch Sicherheitssysteme GmbH della AVENAR panel 2000.

**Avviso!**

I collegamenti LSN 0300 A riportati nel presente documento si applicano anche al modulo LSN 1500 A.

2.2 Informazioni sul prodotto

- Le istruzioni di installazione per i singoli componenti della centrale FACP sono riportate nel manuale di installazione in dotazione.
- Ulteriori informazioni (guide utente, guida al collegamento in rete e informazioni sul sistema) sono disponibili su Internet all'indirizzo: www.boschsecurity.com

2.3 Note importanti

- Utilizzare solo i materiali necessari all'installazione consigliati da Bosch Security Systems.
- Indossare sempre un cinturino con messa a terra quando si effettuano modifiche e lavori di saldatura.
- L'assemblaggio e l'installazione devono essere eseguiti solo da personale qualificato.
- Osservare i criteri di collegamento stabiliti dalle normative locali vigenti.

**Pericolo!**

Il contatto con componenti scoperti potrebbe avere conseguenze letali.
Prima di eseguire l'installazione, scollegare l'alimentazione.

**Avviso!**

Se occorre connettere un filo schermato per il cavo LSN, procedere in base alle specifiche LSN.

- Connettere il filo schermato LSN sul lato del pannello al connettore di messa a terra funzionale designato. L'estremità di entrambi i lati (inizio e fine) del loop deve essere connessa alla centrale.
- Eseguire il loop-through del filo schermato presso tutte le periferiche LSN mediante i terminali forniti
- Non sono consentite connessioni aggiuntive del filo schermato LSN, né ai connettori di messa a terra in qualsiasi posizione, né ad altri potenziali elettrici

2.4 Note per l'utente

La guida di cablaggio presenta la struttura seguente:

- Il capitolo Cablaggio è organizzato in base al dispositivo al quale è collegata la periferica. Un cablaggio mostra il collegamento diretto di un dispositivo a un altro dispositivo (senza collegamenti a cascata). Solitamente, nei cablaggi non è mostrata la schermatura. Il cablaggio di esempio di seguito illustra la schermatura.

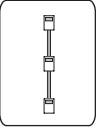
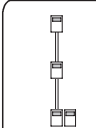
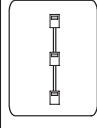
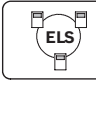
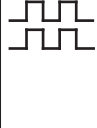
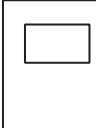
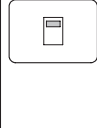
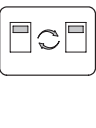
1	Simboli capitolo (<i>Simboli capitolo, pagina 7</i>)
2	Dispositivo periferico collegabile
3	Simboli collegamento (<i>Simboli collegamento, pagina 7</i>)
4	Componenti opzionali
5	Alimentazione e cablaggio (<i>Alimentazione e cablaggio, pagina 8</i>)

2.4.1 Simboli capitolo

	Rivelatori automatici		Pannelli operativi e display		Stampante
	Alimentazione		Moduli funzionali		Dispositivi per il servizio antincendio
	Moduli di interfaccia		Sistemi di spegnimento		Pulsanti manuali
	Dispositivi di segnalazione		Controlli porte		Unità di trasmissione
	Collegamento in rete				

2.4.2 Simboli collegamento

 	Collegamento monitorato/non monitorato di periferiche convenzionali o linea circuito apparecchio di notifica convenzionale monitorata/non monitorata. (Resistenza fine linea nei collegamenti CZM 0004 A, FLM-420-NAC-D/S, NZM 0002 A, RMH 0002 A o collegamenti a contatto secco con il modulo interfaccia).	 	In questo collegamento di periferiche tradizionali è possibile collegare una linea di feedback. / Il simbolo contrassegnato da una croce indica che la linea di feedback non è necessaria o consigliata. (Collegamenti FLM-420-RHV, FLM-420-RLE-S, RMH 0002 A) È inoltre possibile utilizzare una linea di ingresso come linea di feedback (FLM-420-I8R1, FLM-420-I2, FLM-420-O8I2, FLM-420-O1I1, ...).		Ridondanza
	Cablaggio in loop		Cablaggio in loop con elemento ridondante		Cablaggio in linea aperta

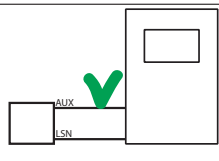
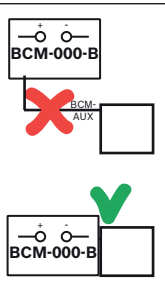
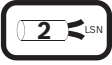
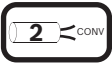
	Cablaggio in linea aperta ridondante		Cablaggio in linea aperta con elemento ridondante		Cablaggio in linea aperta ridondante con elemento ridondante
ELS	Questo cablaggio è conforme allo standard VdS 2543. ELS sta per supervisione di linea estesa (Extended Line Supervision), che significa monitoraggio dei cortocircuiti e delle interruzioni di circuito lenti. Il cablaggio presenta ELS. Tutti i cablaggi arricchiti con moduli EOL aggiuntivi per il monitoraggio delle interruzioni di circuito lente si trovano al capitolo EOL. Un cortocircuito lento viene rilevato dai seguenti moduli: LSN 0300 A, LSN 1500 A e BCM-0000-B con utilizzo di FPP-5000-TI13.		Questo cablaggio in loop è conforme allo standard VdS 2543. Offre la funzione ELS. Non sono necessari moduli EOL aggiuntivi.		Sincronizzazione
	Aree a rischio di esplosione		Centrale		Centrale autonoma
	Centrale di controllo autonoma con ridondanza		Non consentito		Per le basi del rivelatore: il cablaggio è valido unicamente per la base del rivelatore in cui quest'ultimo è installato.
-----	Cablaggio opzionale	_____	Cablaggio obbligatorio	EN 54-2, DIBT ecc.	Per assicurare la conformità a questo standard, utilizzare il cablaggio specificato.

2.4.3

Alimentazione e cablaggio



Alimentazione supplementare

	Alimentazione tramite centrale L'alimentatore può essere separato dall'elemento.
	Alimentazione tramite centrale/alimentatore esterno L'elemento è alimentato da un modulo BCM-000-B. Deve essere montato ad incasso con l'alloggiamento del prodotto contenente il modulo BCM-000-B.
 	Il cablaggio è un collegamento a 4 conduttori. Altrimenti è un collegamento a 2 conduttori.
 	Il cablaggio è un collegamento a 2 conduttori.
	Consultare il cablaggio nel presente manuale.
	Vedere la documentazione tecnica della periferica collegata.

2.5

Valori di resistenza

La seguente tabella mostra una panoramica delle codifiche dei colori per le resistenze. Le resistenze della pellicola di metallo fornite con il prodotto presentano 5 bande colorate che ne indicano il valore.

Colore	1. banda	2. banda	3. banda	4. banda (moltiplicatore)	5. banda (tolleranza)
Argento				10^{-2}	$\pm 10\%$
Oro				10^{-1}	$\pm 5\%$
Nero		0	0	10^0	
Marrone	1	1	1	10^1	$\pm 1\%$
Rosso	2	2	2	10^2	$\pm 2\%$
Arancione	3	3	3	10^3	$\pm 0.05\%$
Giallo	4	4	4	10^4	$\pm 0.02\%$
Verde	5	5	5	10^5	$\pm 0.5\%$
Blu	6	6	6	10^6	$\pm 0.25\%$

Colore	1. banda	2. banda	3. banda	4. banda (moltiplicatore)	5. banda (tolleranza)
Viola	7	7	7	10^7	$\pm 0.1\%$
Grigio	8	8	8	10^8	$\pm 0.01\%$
Bianco	9	9	9	10^9	

Conforme a DIN EN 60062:2017

Arancione - Bianco - Nero - Marrone - Marrone: resistenza di 3.900 Ohm con tolleranza dell'1%

Rosso - Rosso - Nero - Marrone - Marrone: resistenza di 2.200 Ohm con tolleranza dell'1%

3

Wiring



FPP-5000 Power supply, pagina 12

DIBT, pagina 14

Functional Modules, pagina 41

BCM-000-B, pagina 42

CZM 0004 A, pagina 44

ENO 0000 A/B, pagina 48

LSN 0300 A, pagina 55

NZM 0002 A, pagina 90

RMH 0002 A, pagina 106

IOS 0020 A, pagina 109

FPE-5000-UGM, pagina 112

Interface Modules, pagina 113

FLM-420-4/CON-D/S, pagina 114

FLM-420-NAC-D/S, pagina 139

FLM-420-RLE-S, pagina 152

FLM-420-RLV1-E, pagina 153

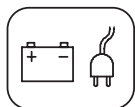
FLM-420-RLV8-S, pagina 154

FMF-ADP-FBF/FMF-ADP-TTY, pagina 155

EOL, pagina 157

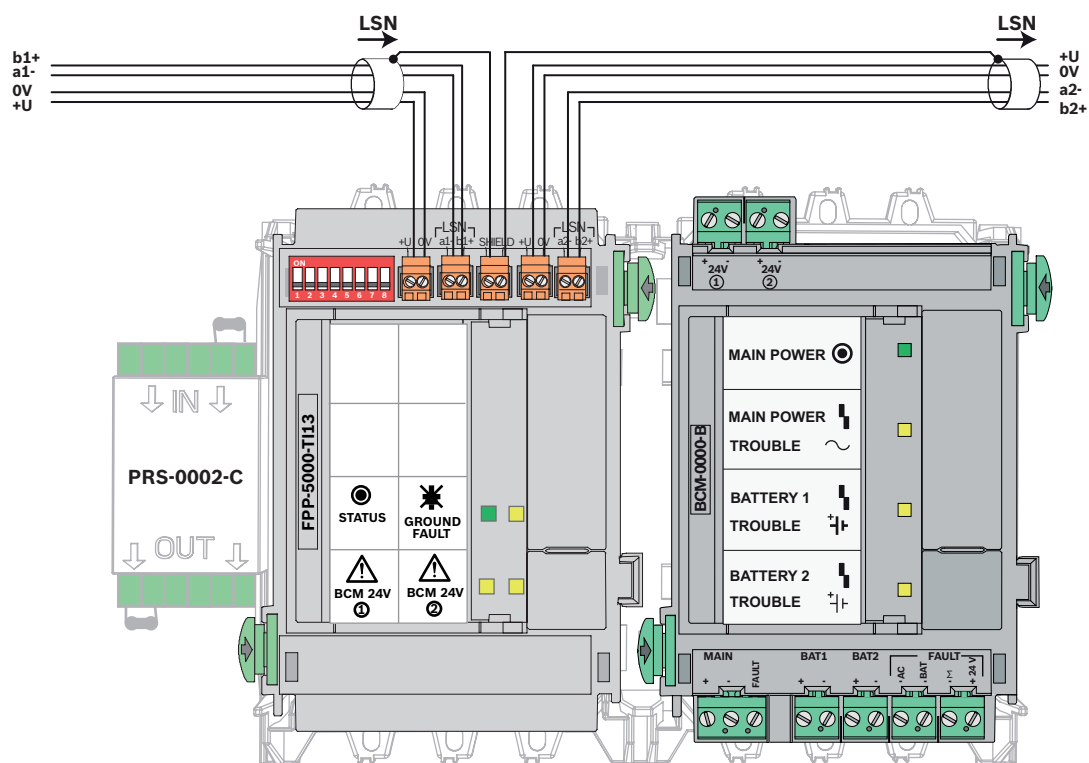
LSN 0300 A, pagina 158

FLM-420/4-CON-S/D, pagina 200



FPP-5000-TI13

ELS VdS 2489

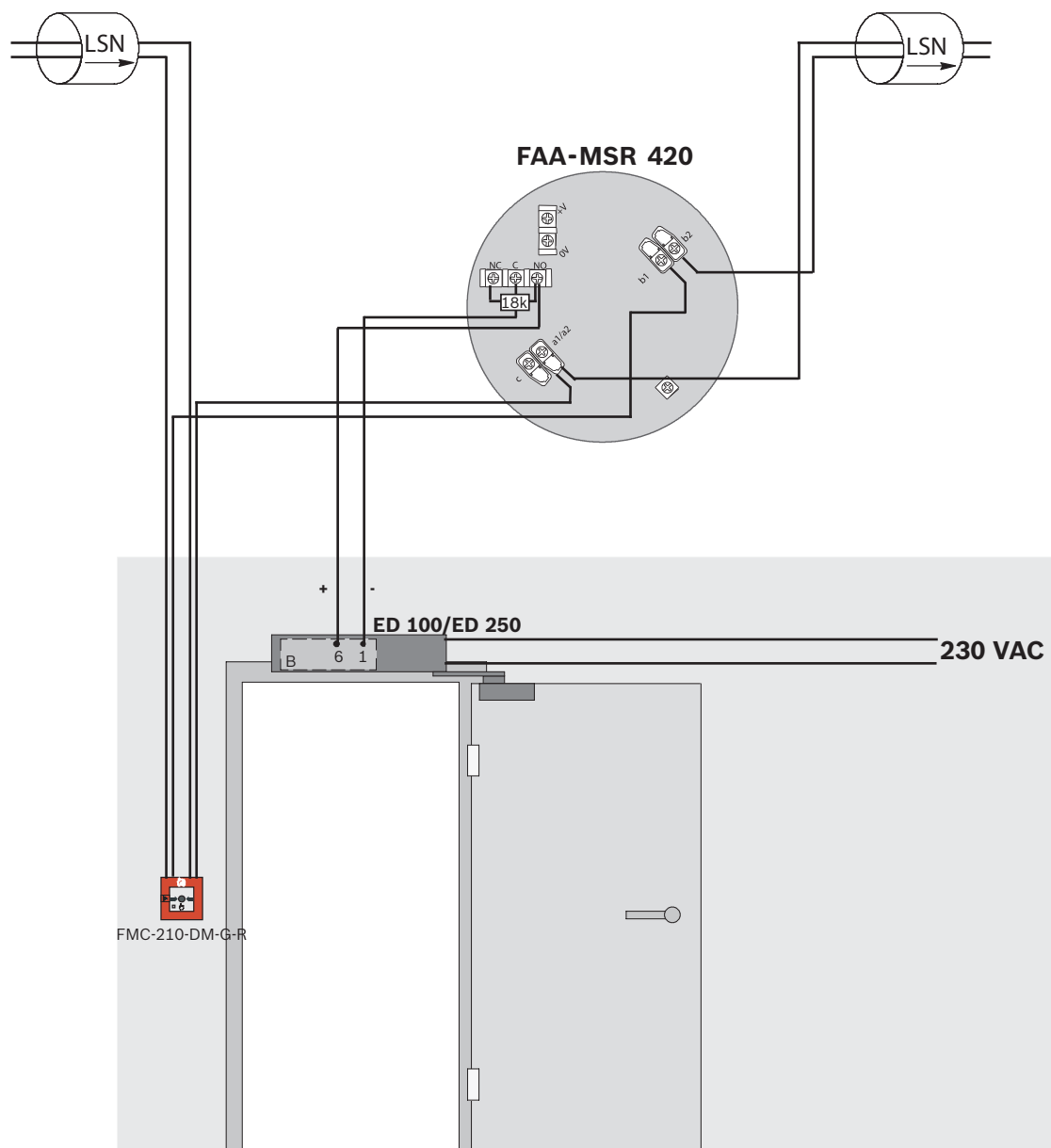


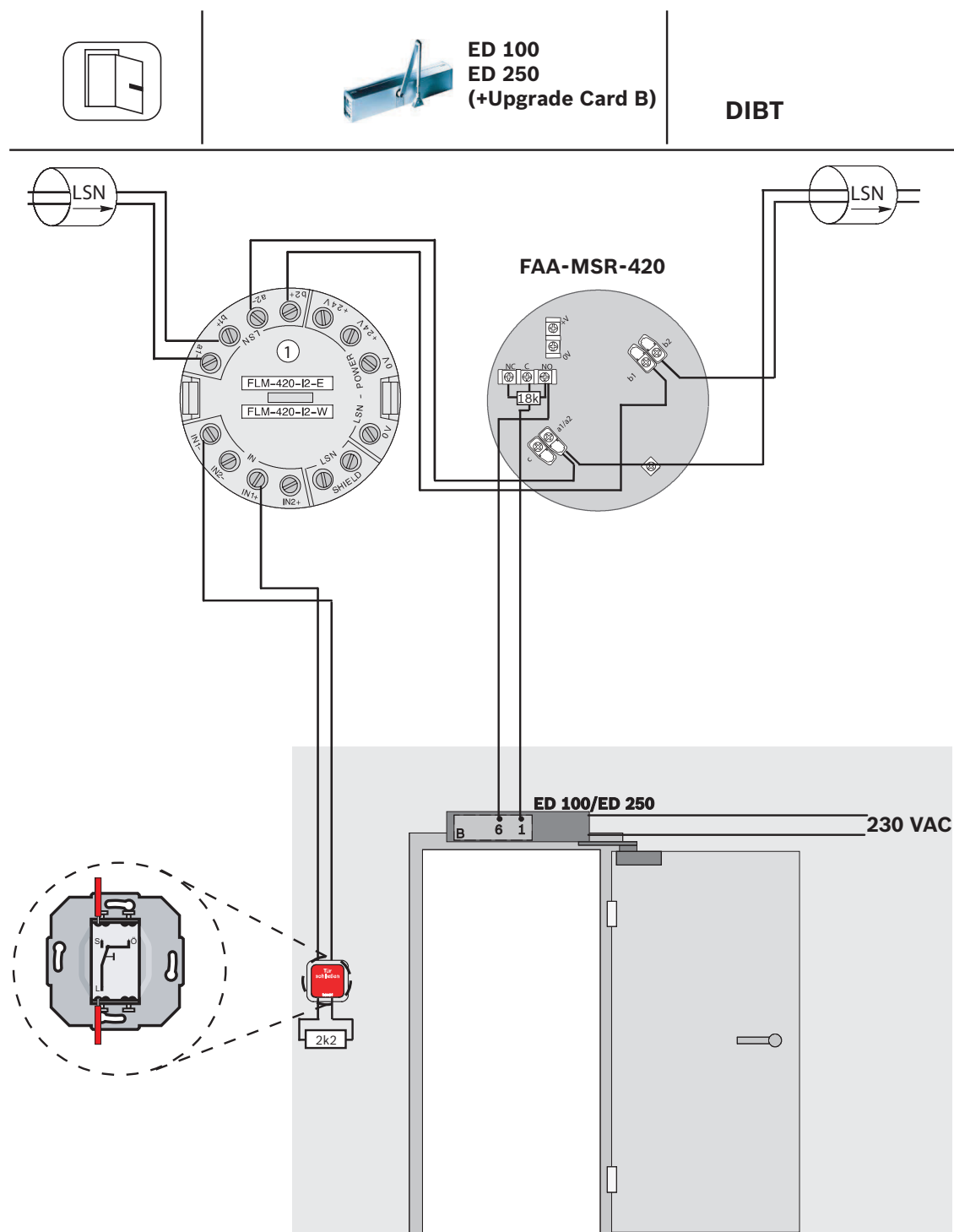
3.2 DIBT

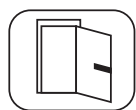


ED 100
ED 250
(+Upgrade Card B)

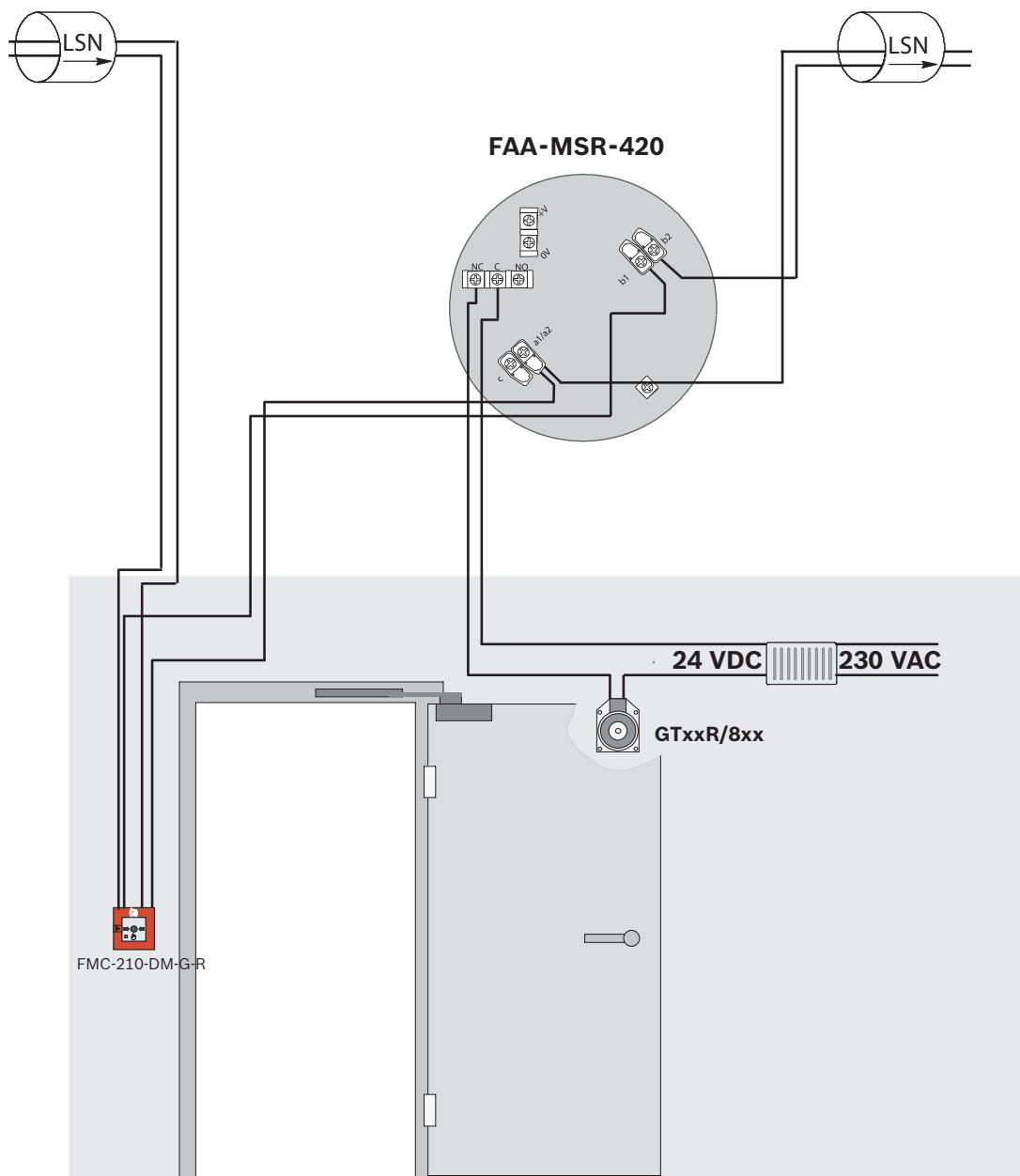
DIBT







DIBT

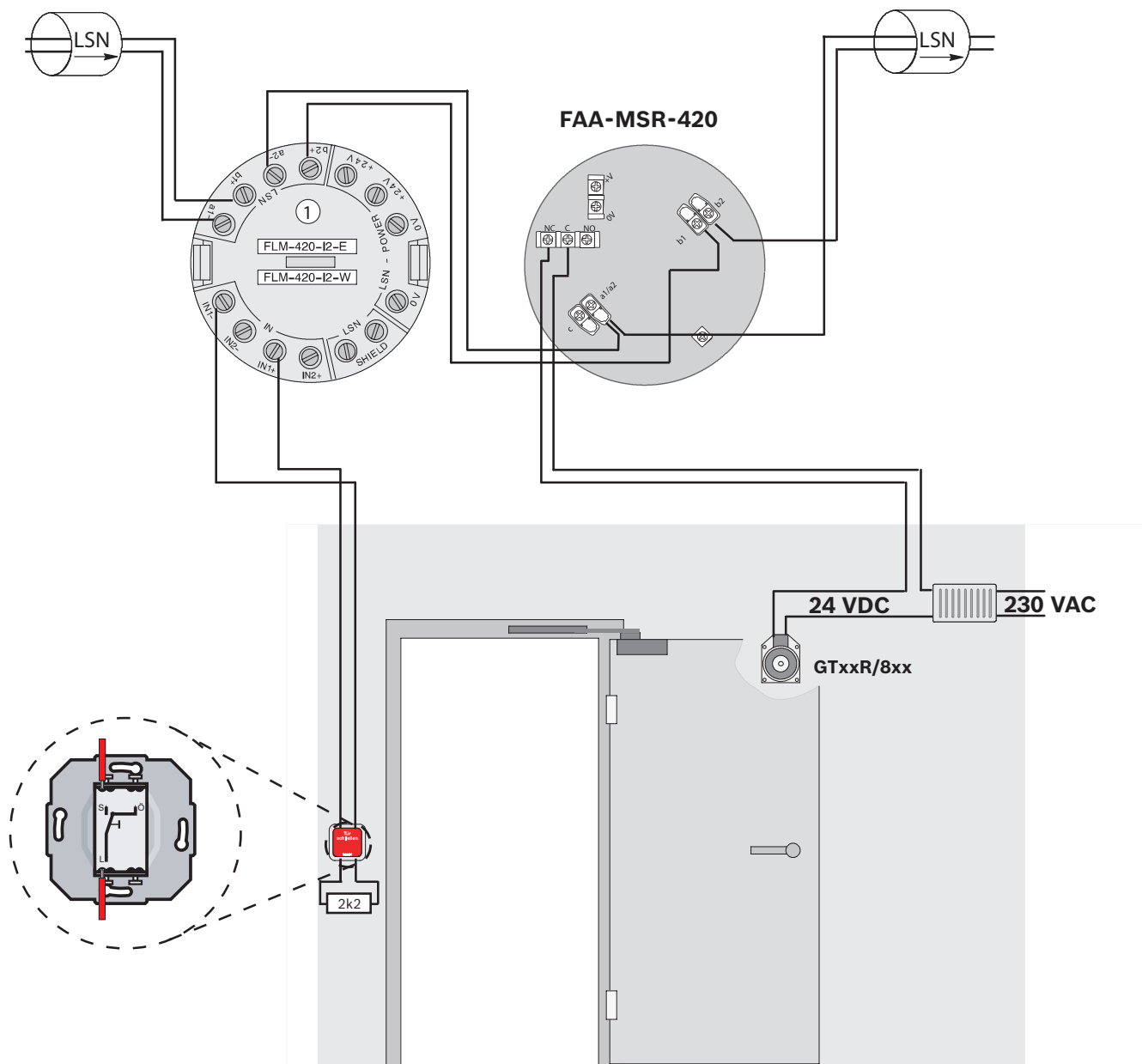




GT xx R

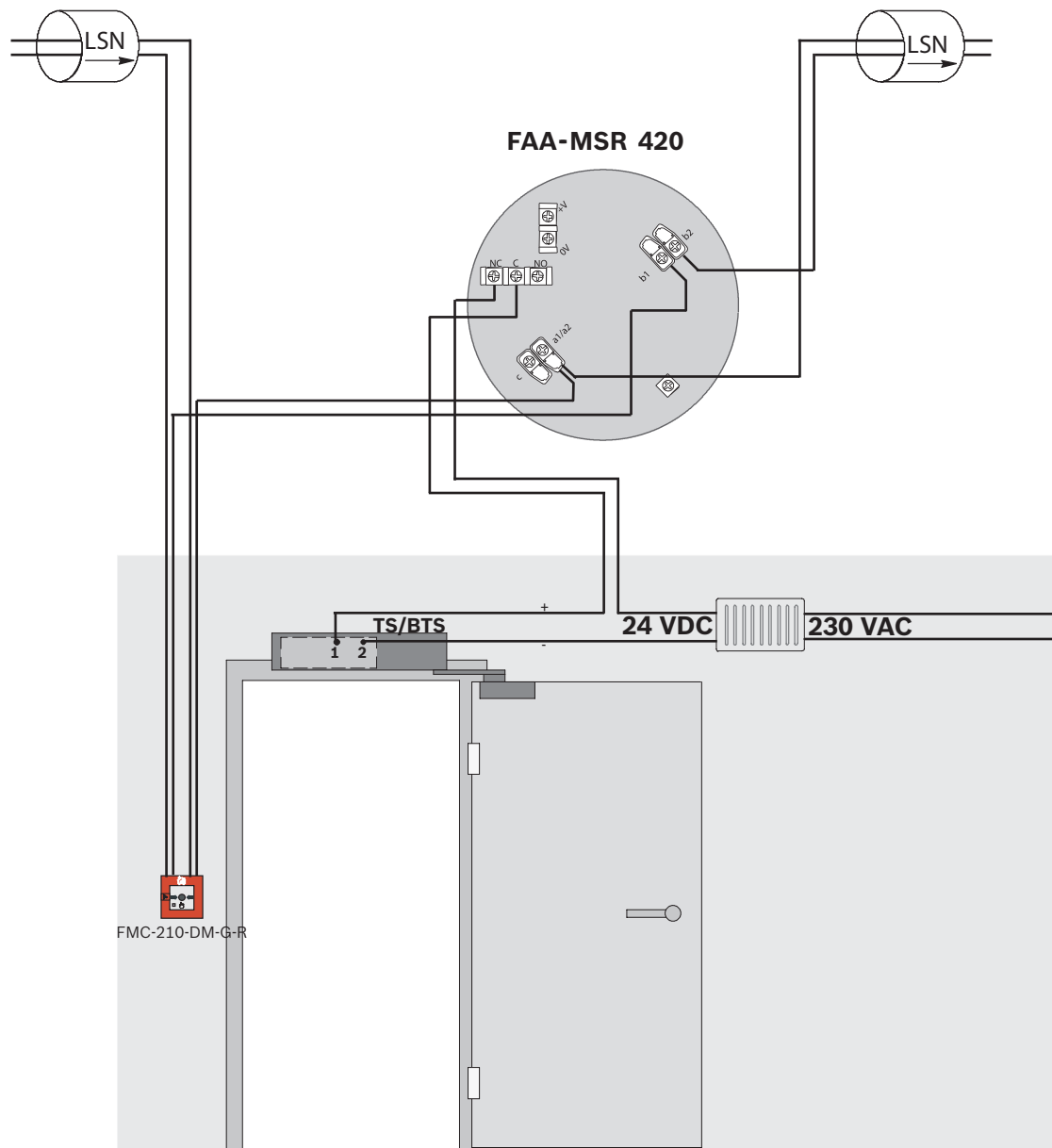
8 xx

DIBT





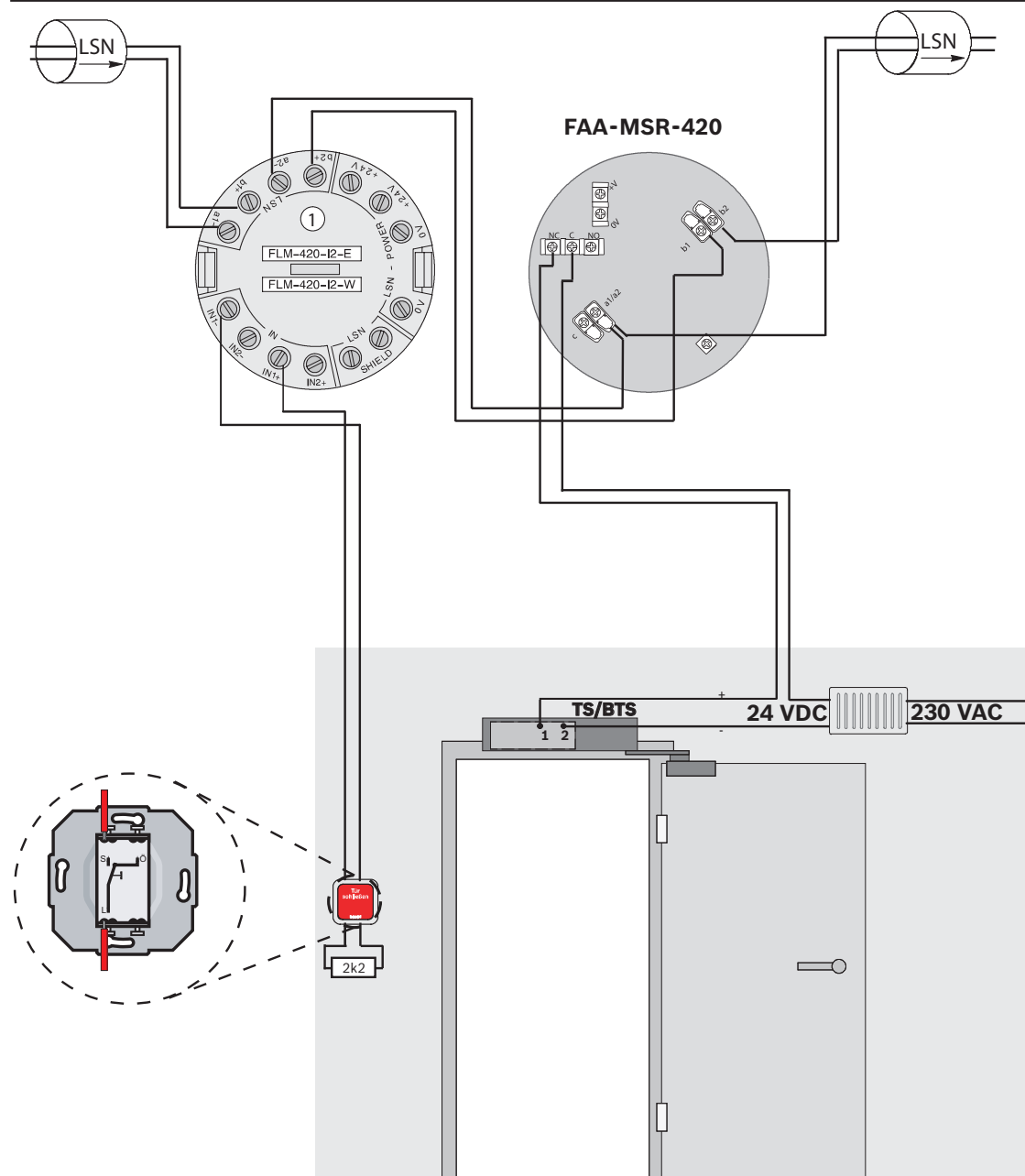
TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

DIBT



TS 73 EMF
TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

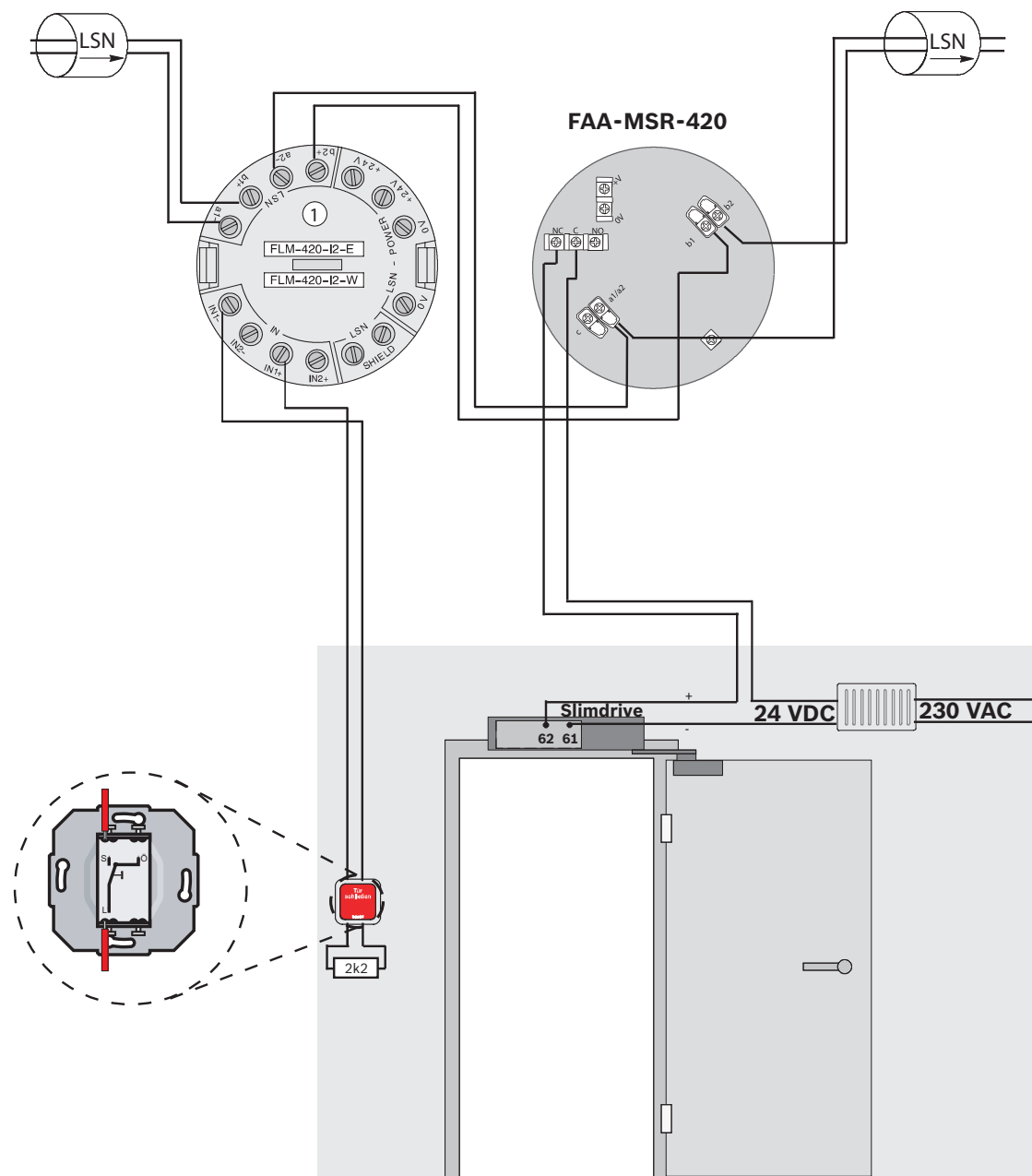
DIBT





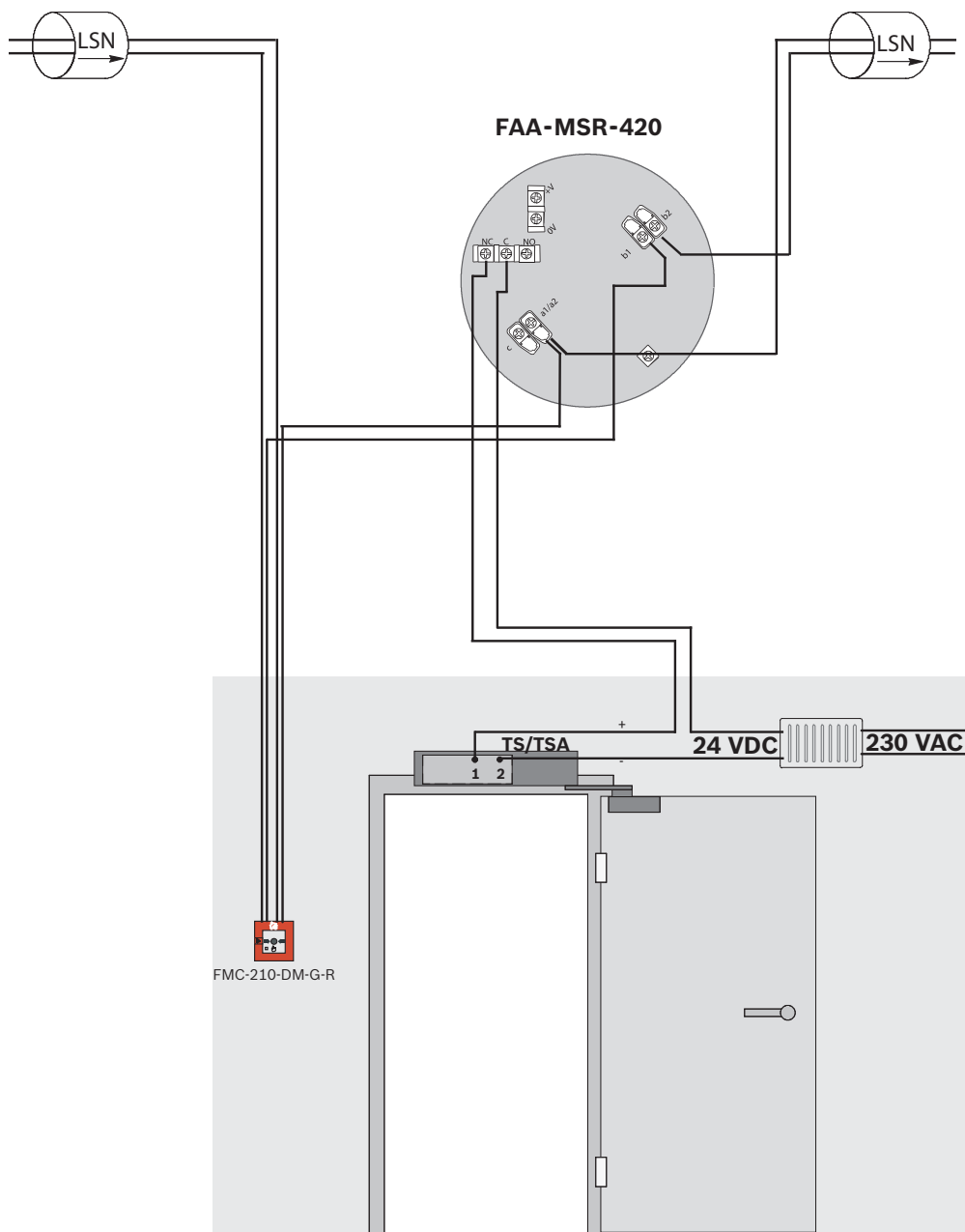
Slimdrive EMD-F/EMD F-IS

DIBT





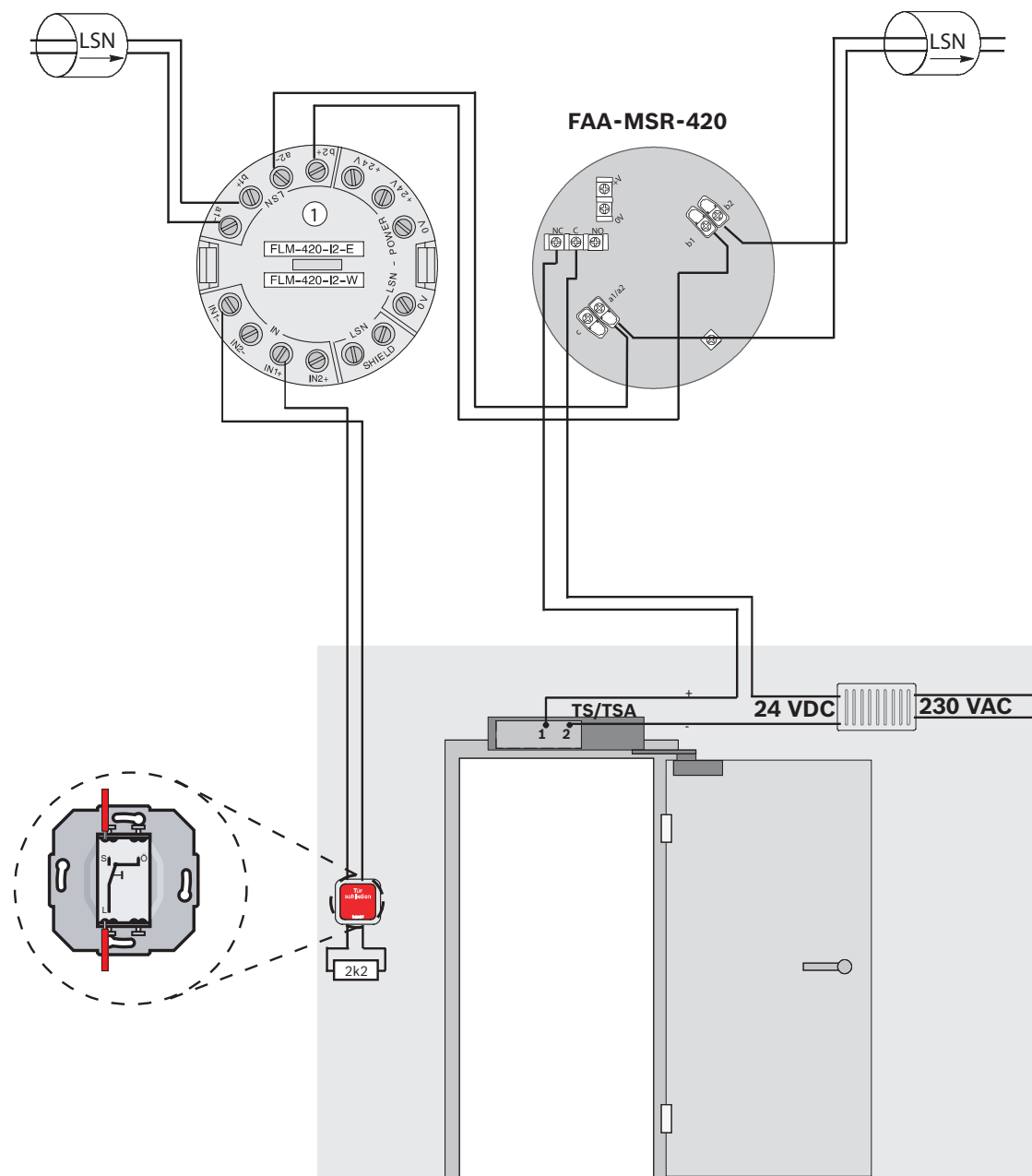
DIBT





TS 4000 E/E-IS/EFS
TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

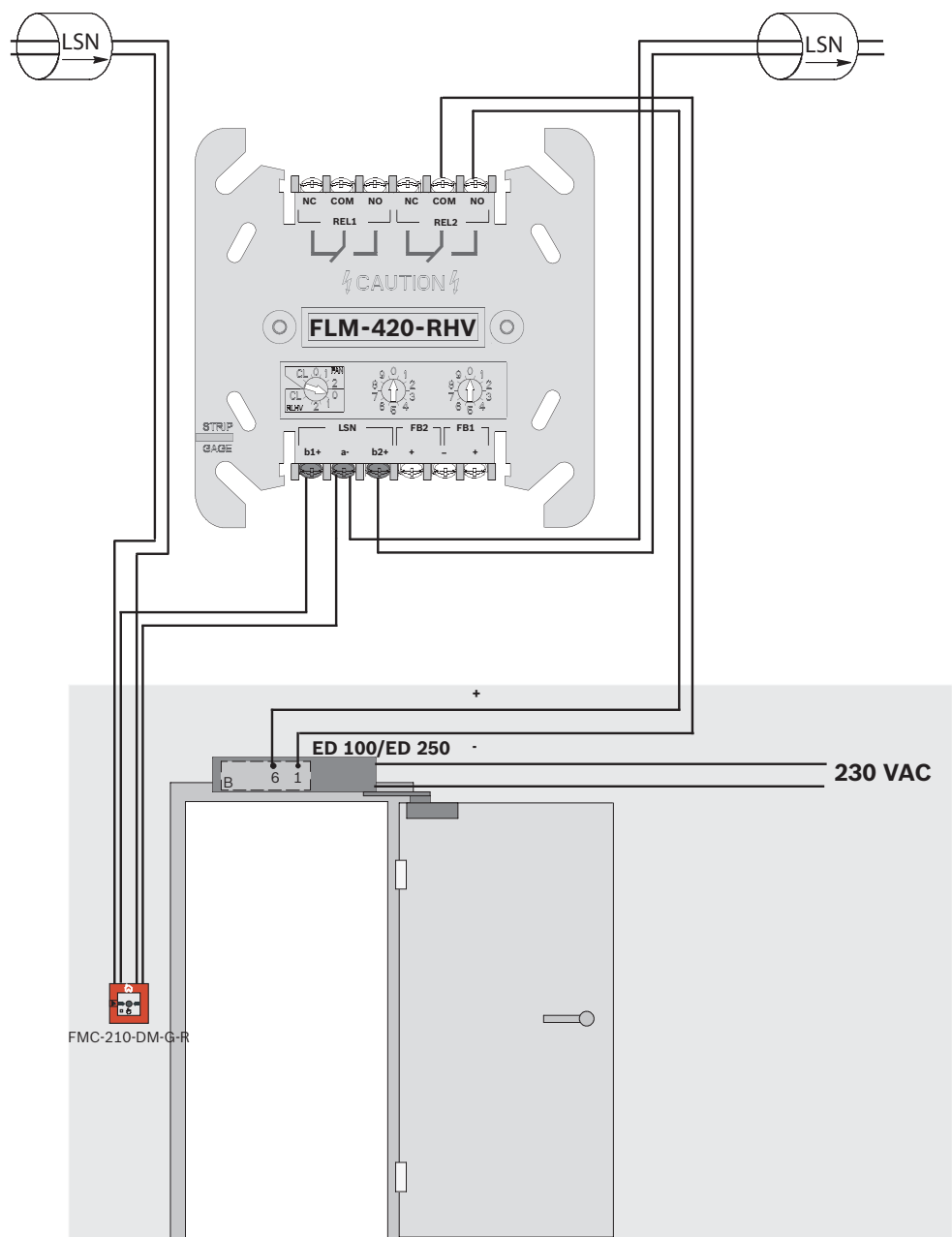
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**ED 100
ED 250
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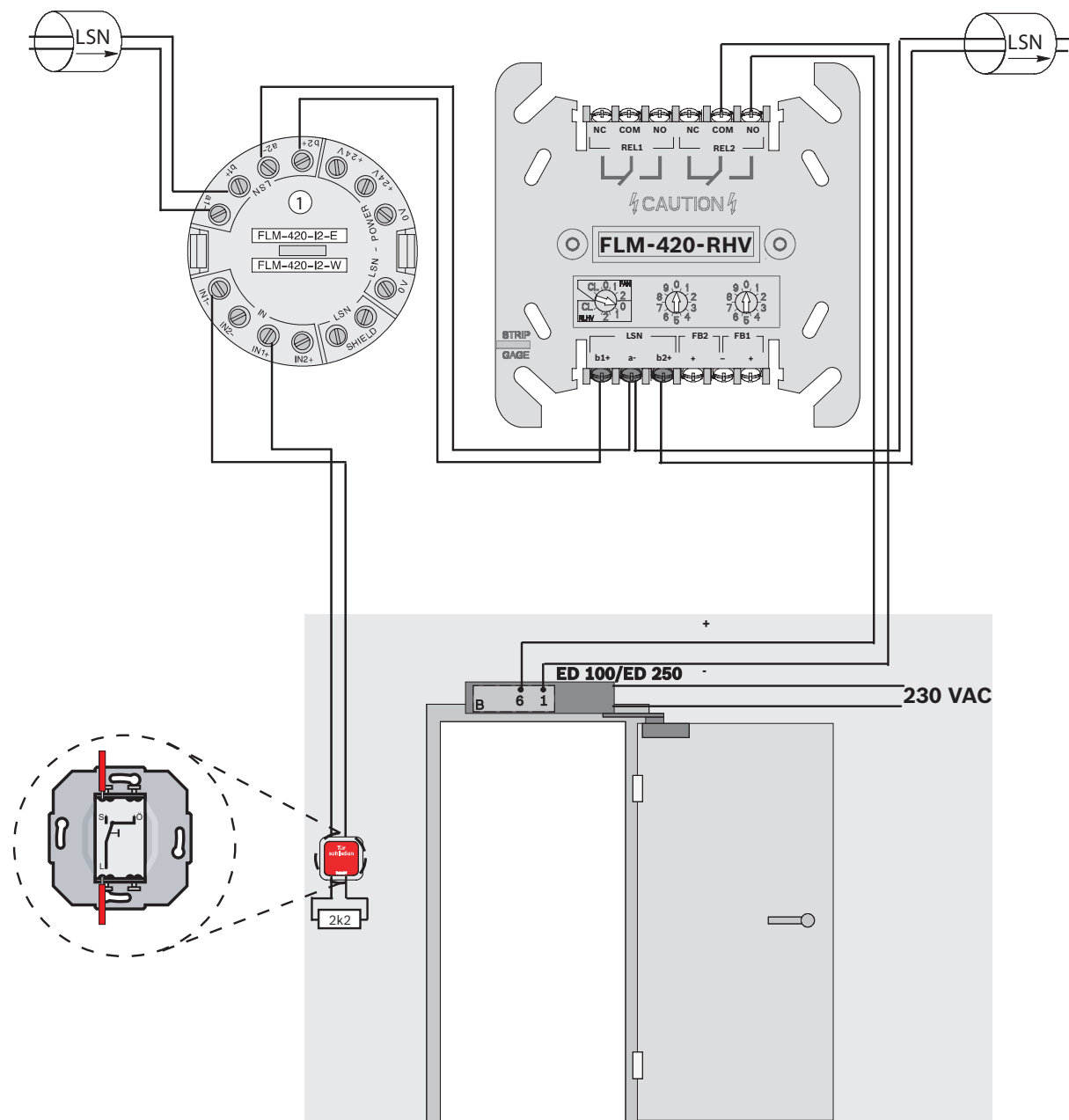
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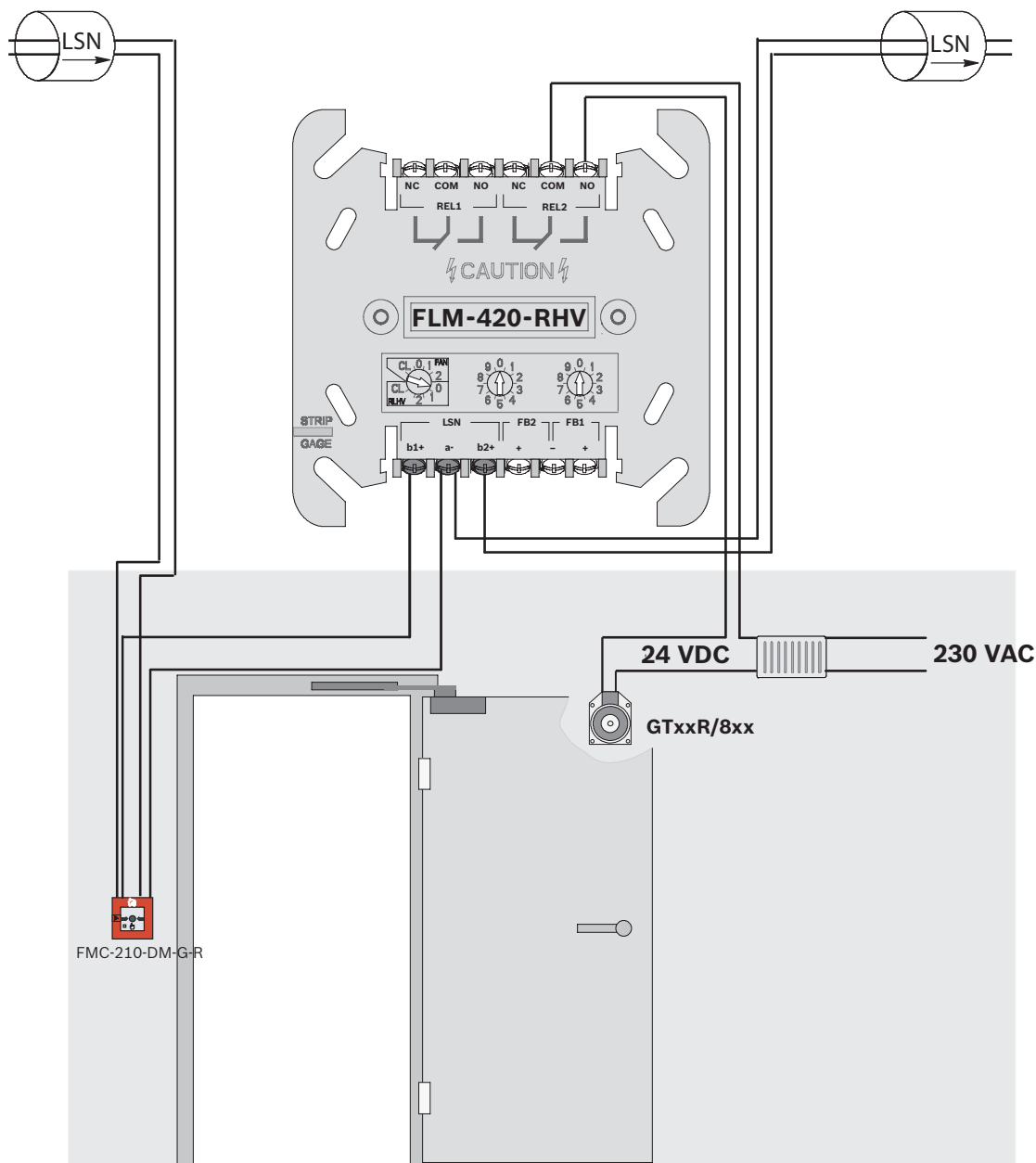
ED 100
ED 250
(+Upgrade Card B)

DIBT





DIBT

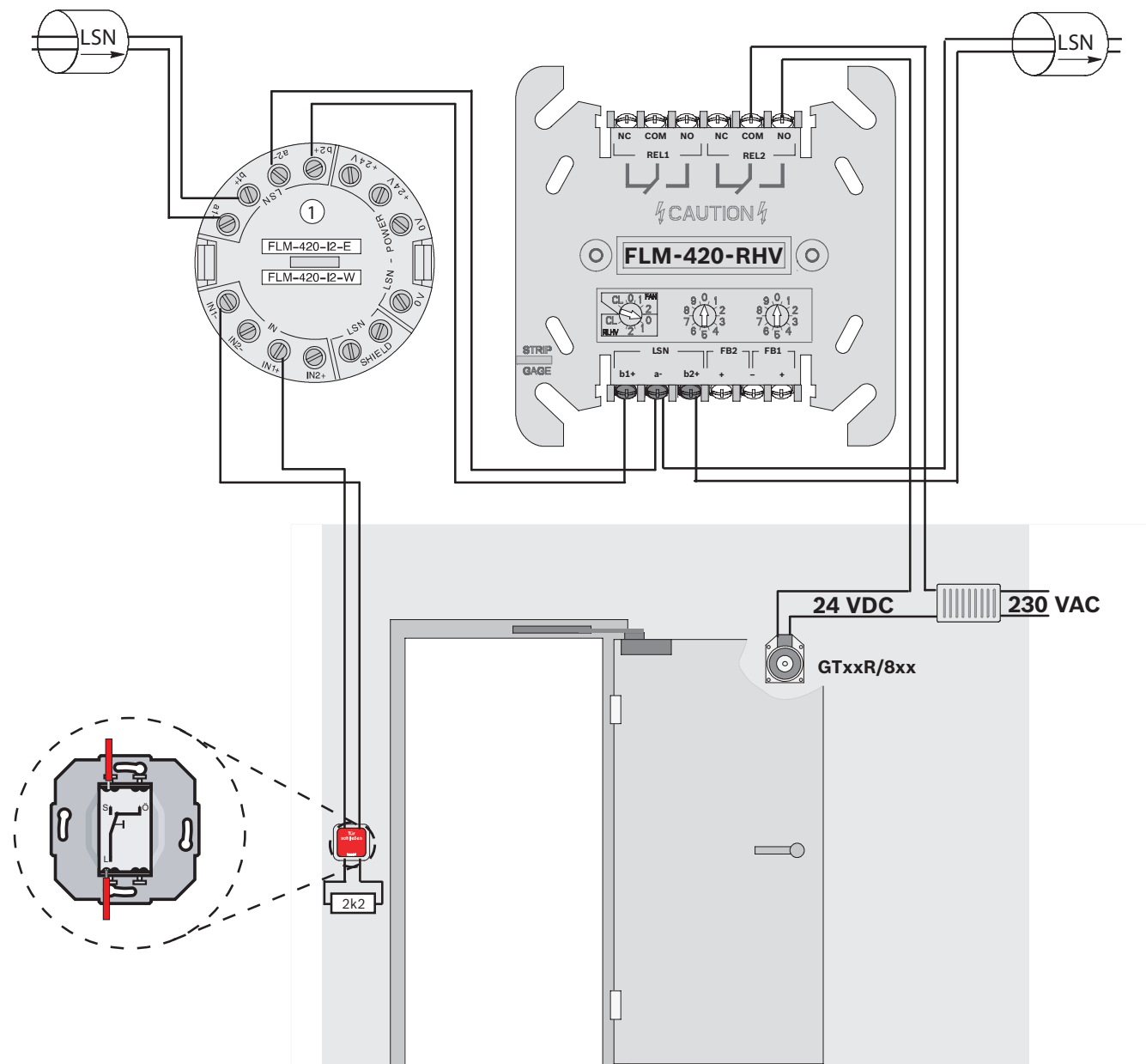




GT xx R

8 xx

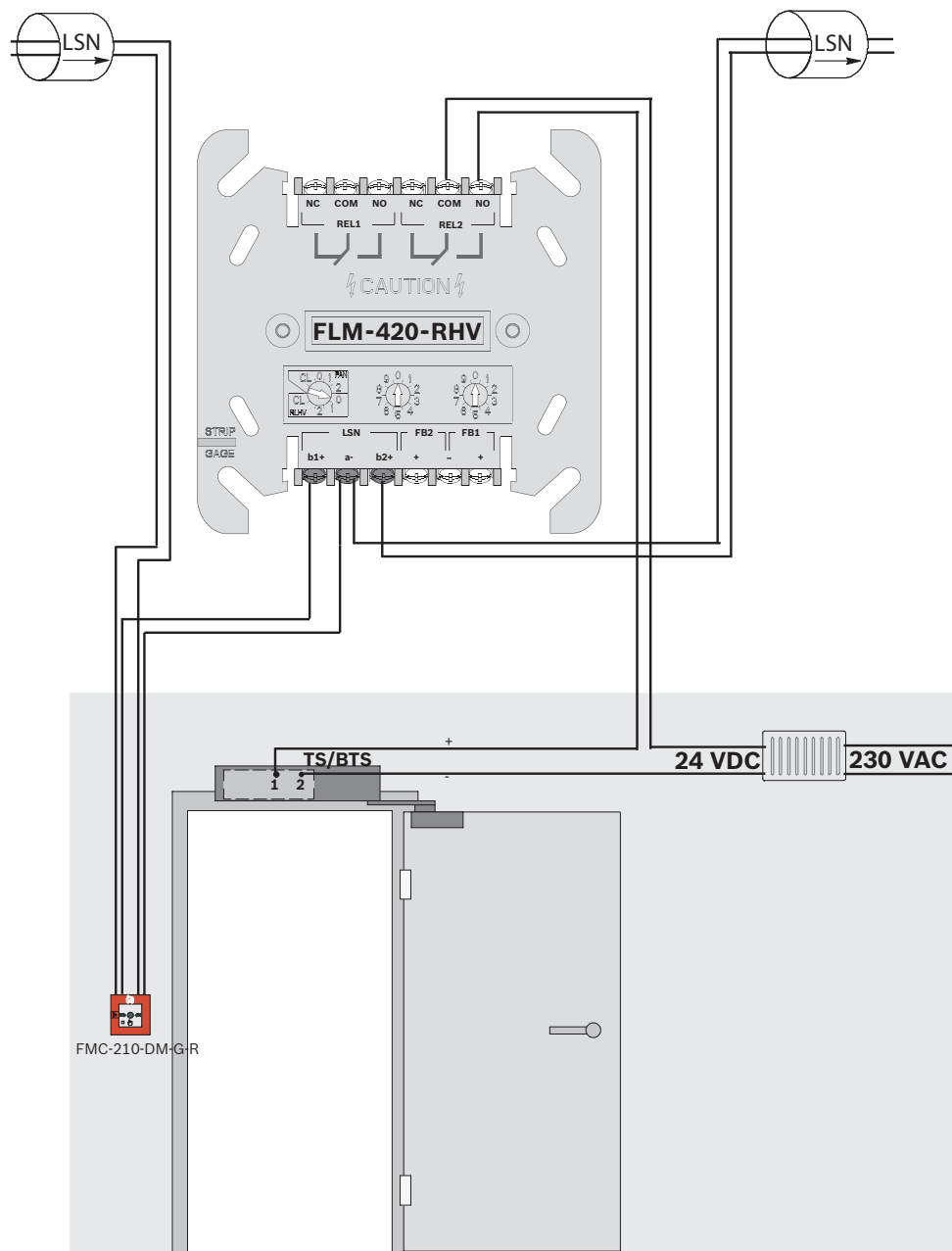
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TS 93 EMF
TS 93 GSR
BTS 80 EMB
BTS 80 FLB

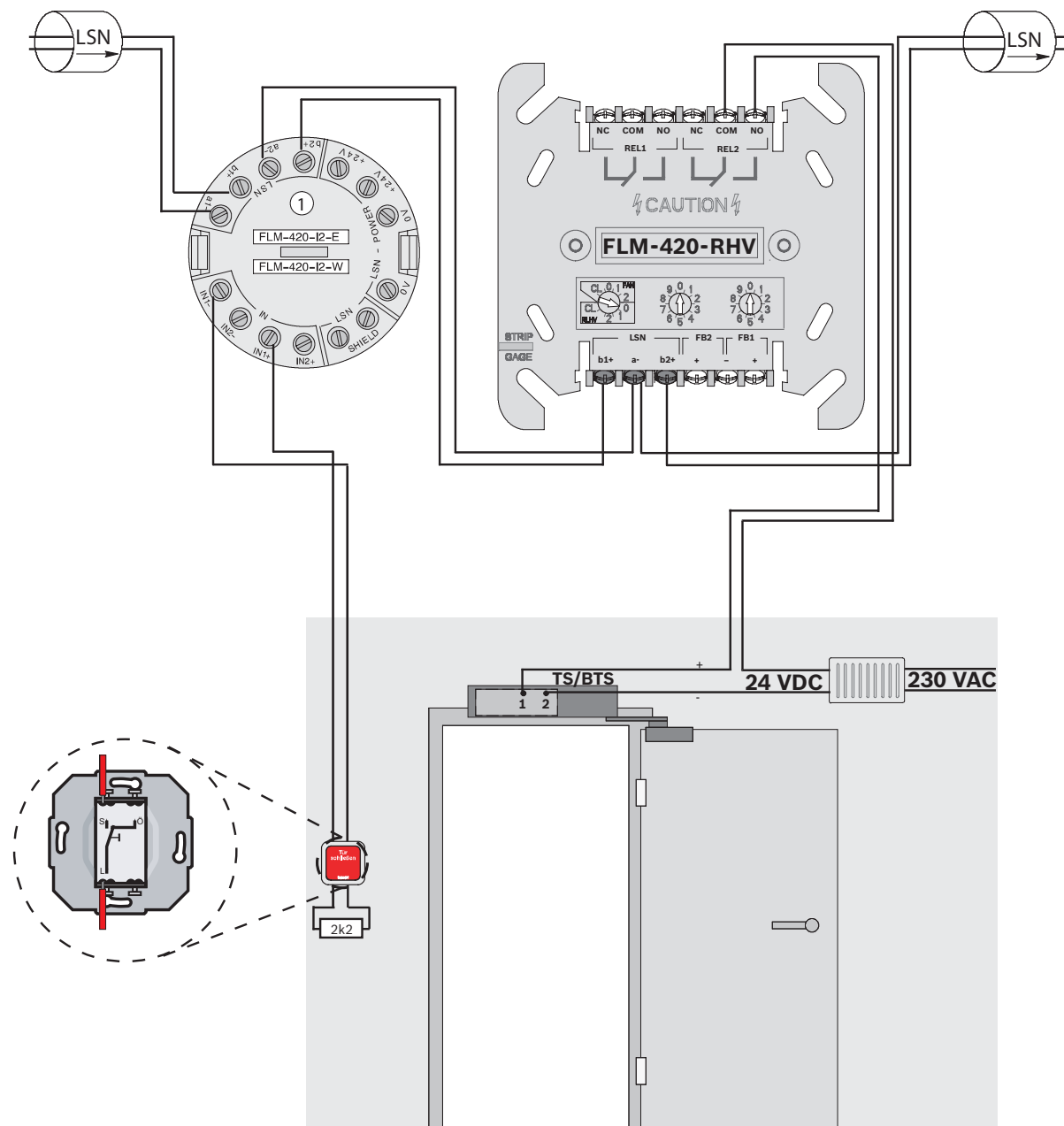
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TS 93 EMF
TS 93 GSR
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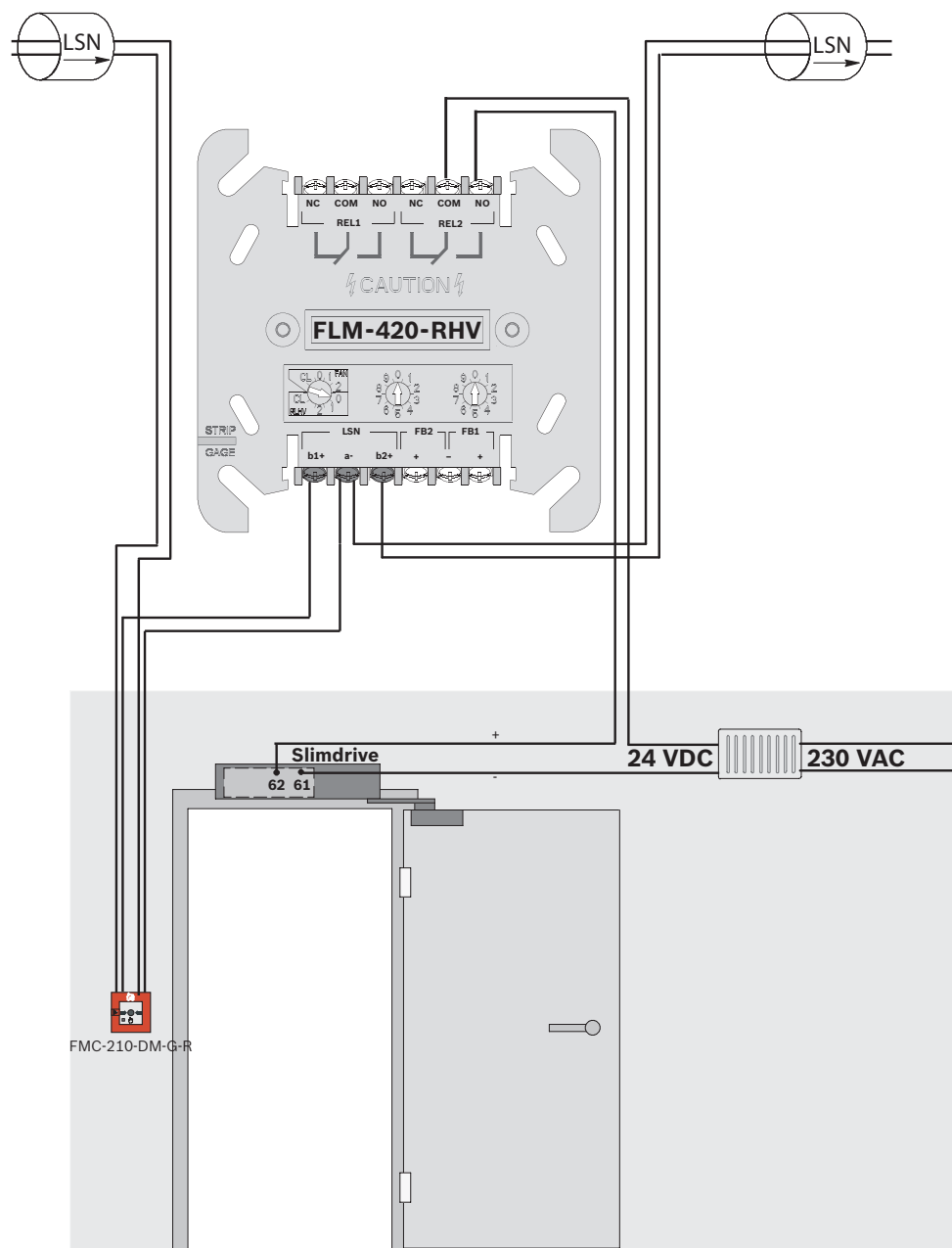
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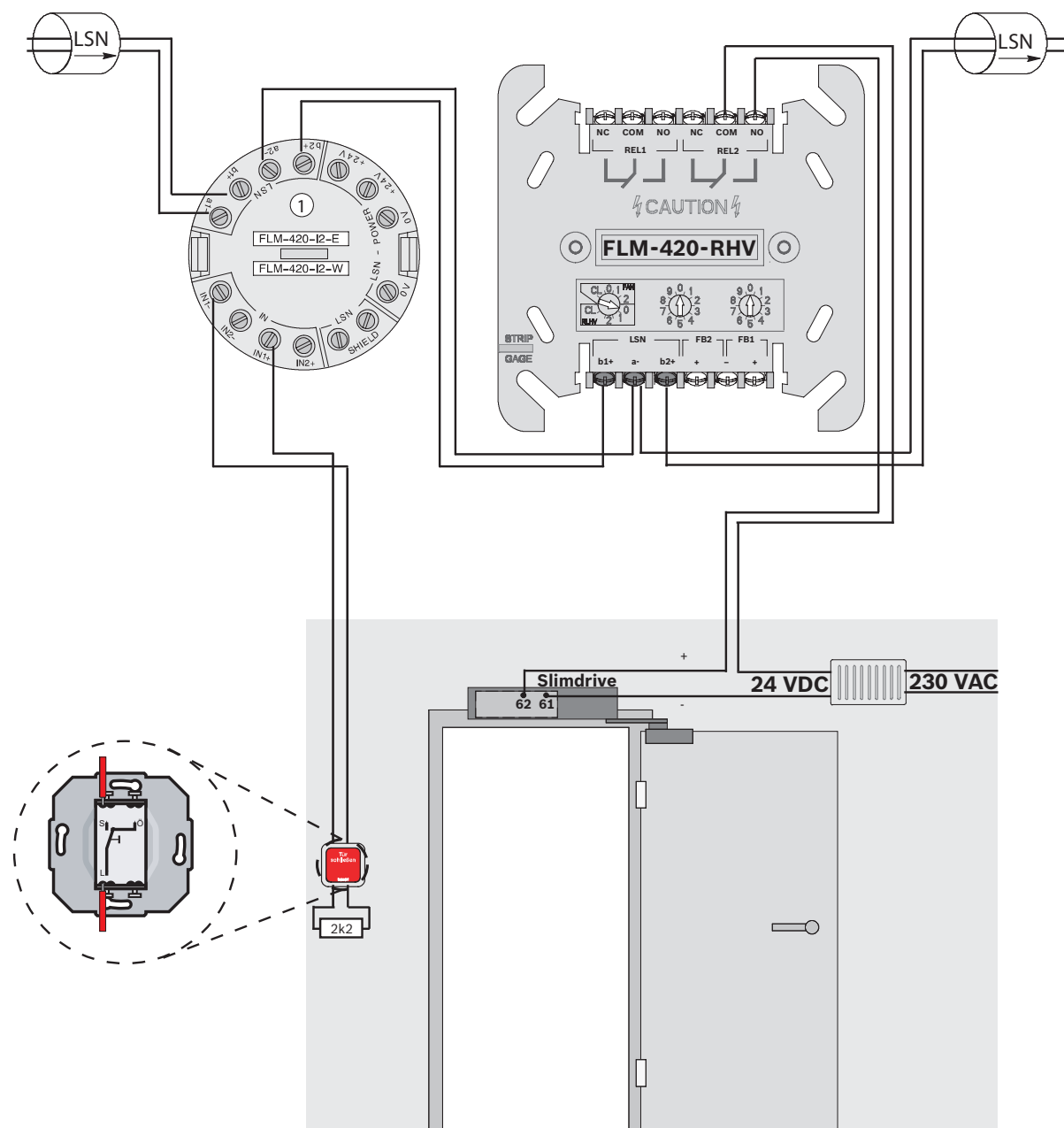




Slimdrive EMD-F/EMD F-IS

DIBT

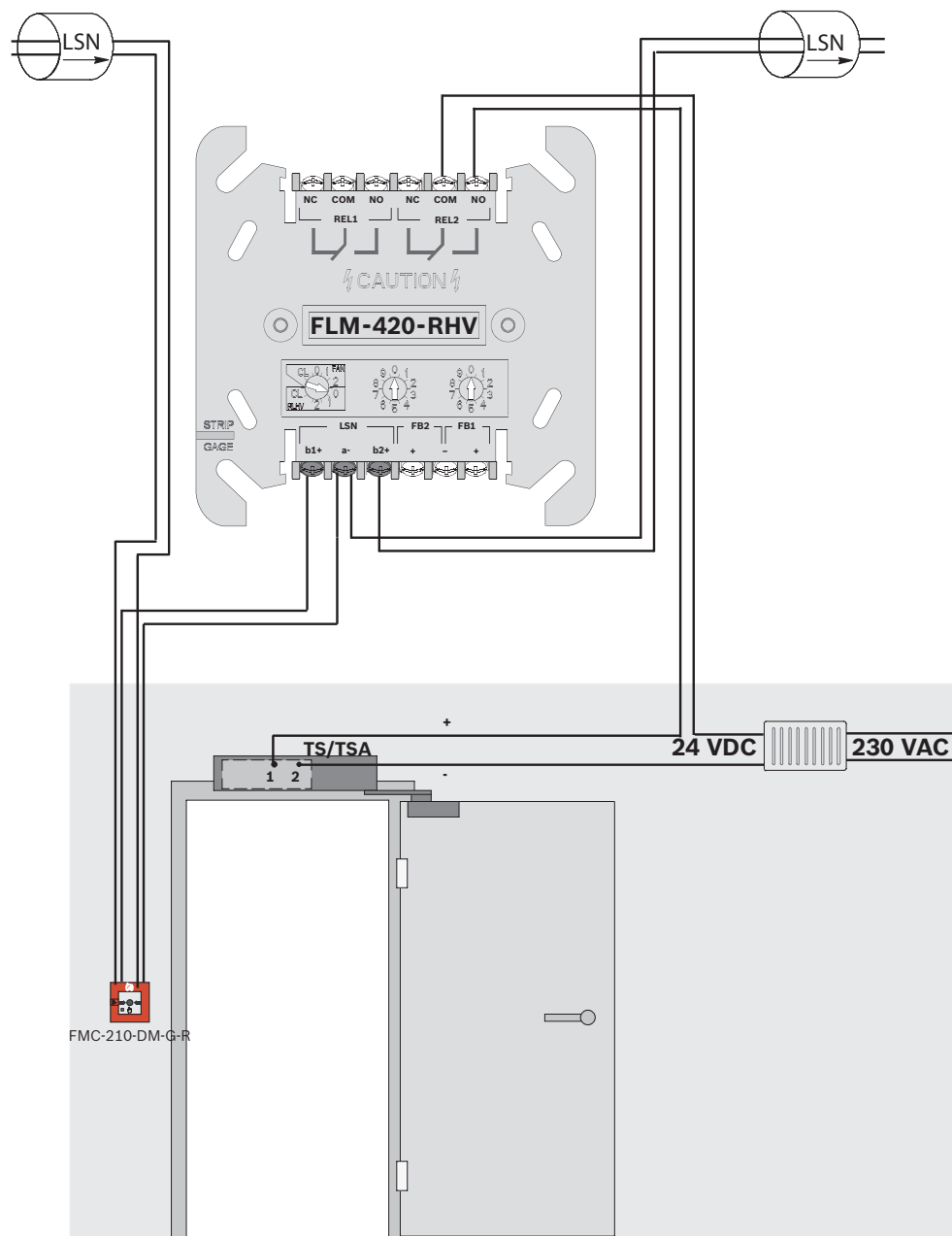


**Slimdrive EMD-F/EMD F-IS****DIBT**



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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

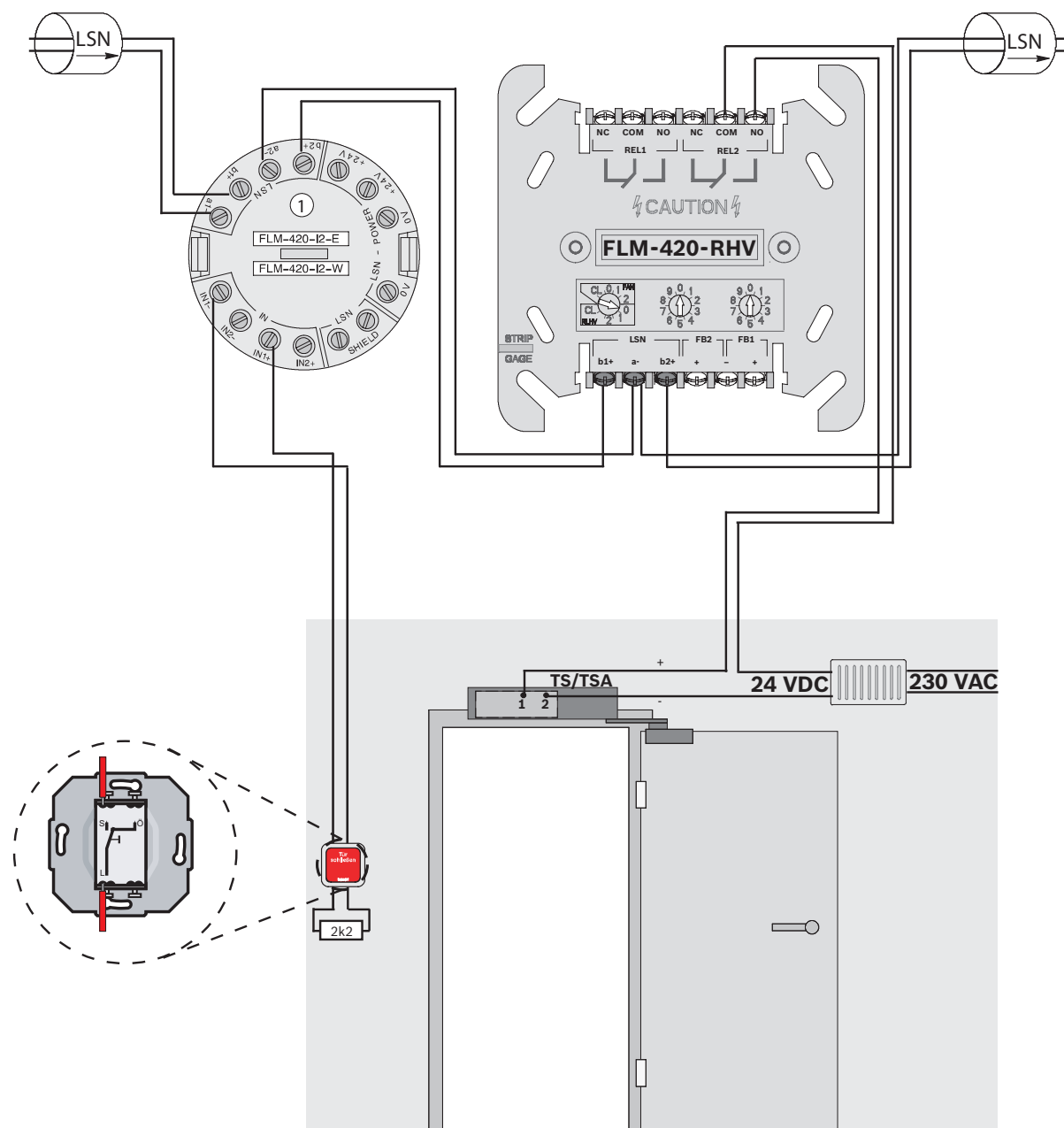
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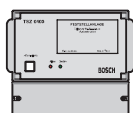




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TS 5000 E/E-IS/E-ISM
TS 550 E
TSA 160 NT F/F-IS/F-IS/TS

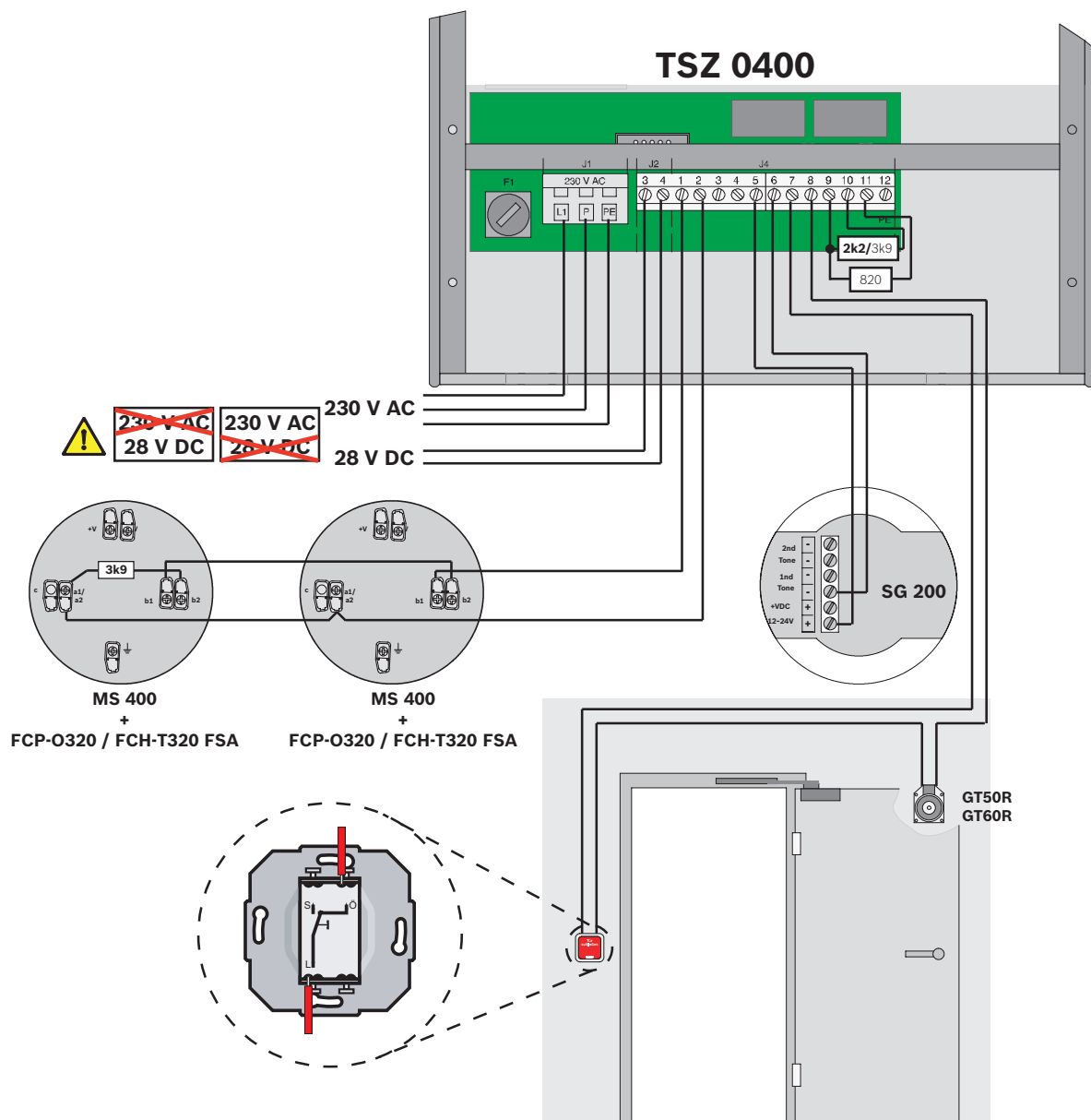
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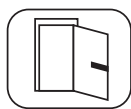




TSZ 0400

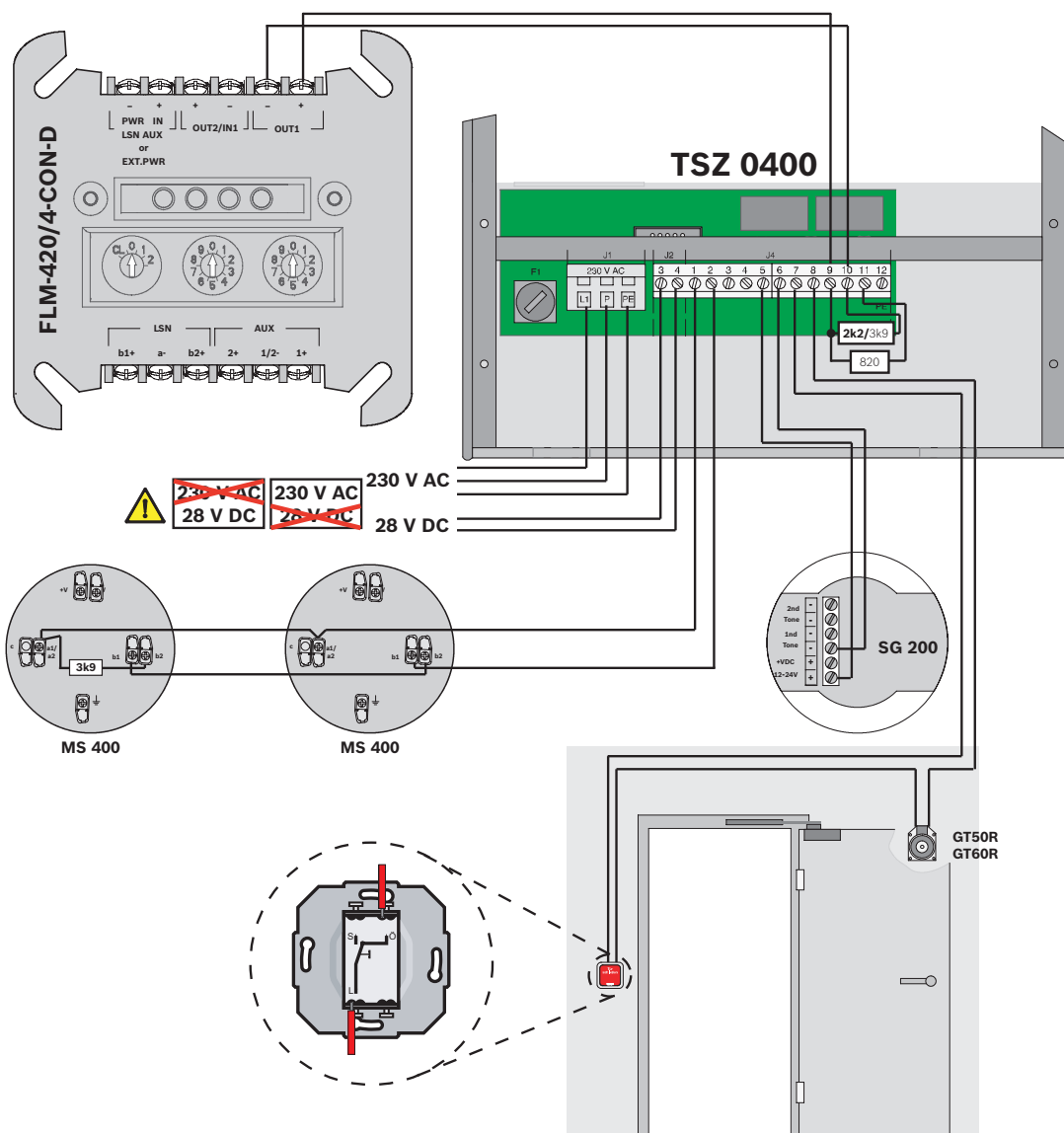
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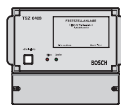
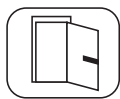




TSZ 0400

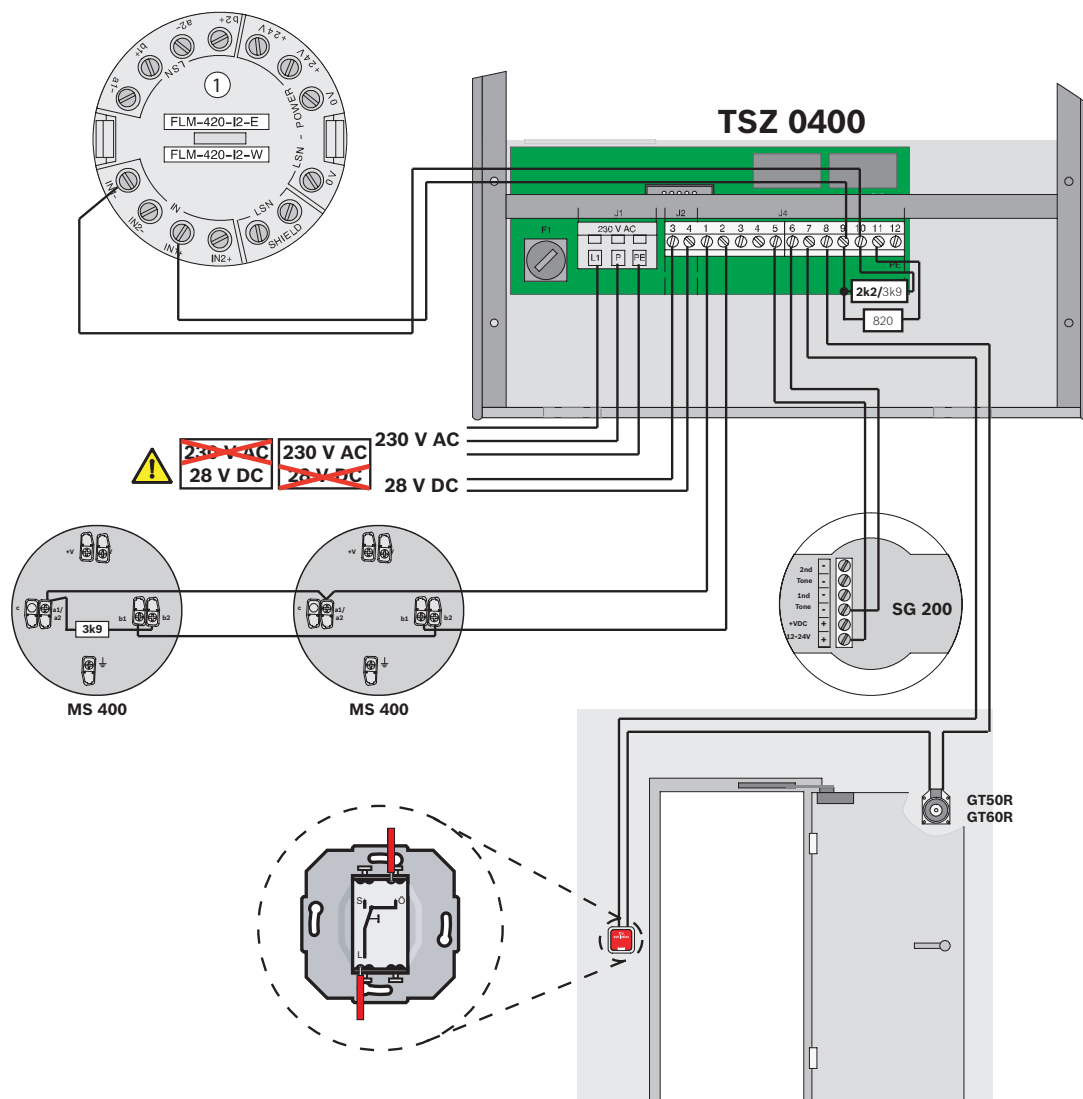
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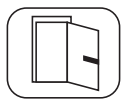




TSZ 0400

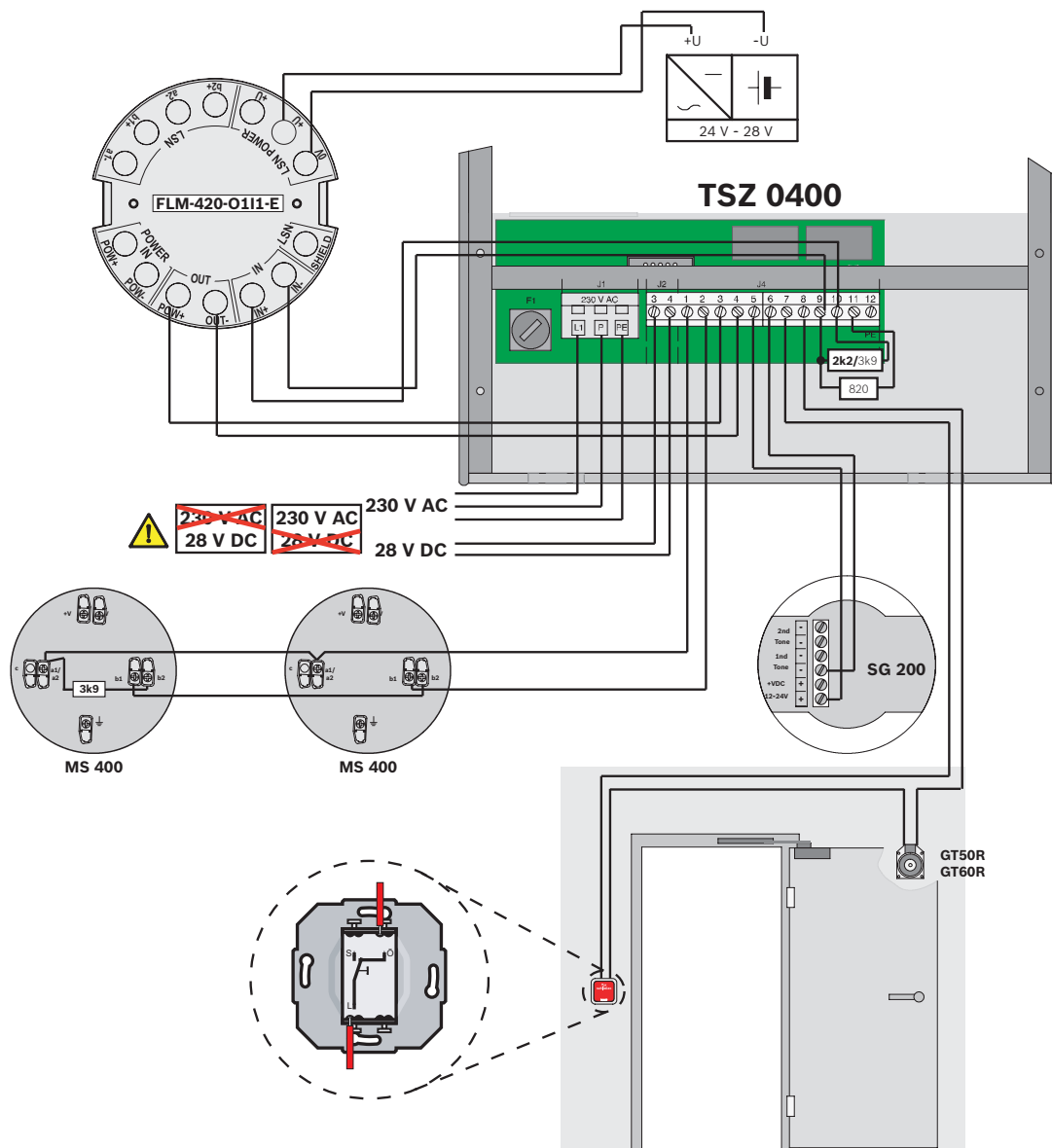
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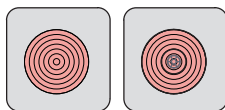




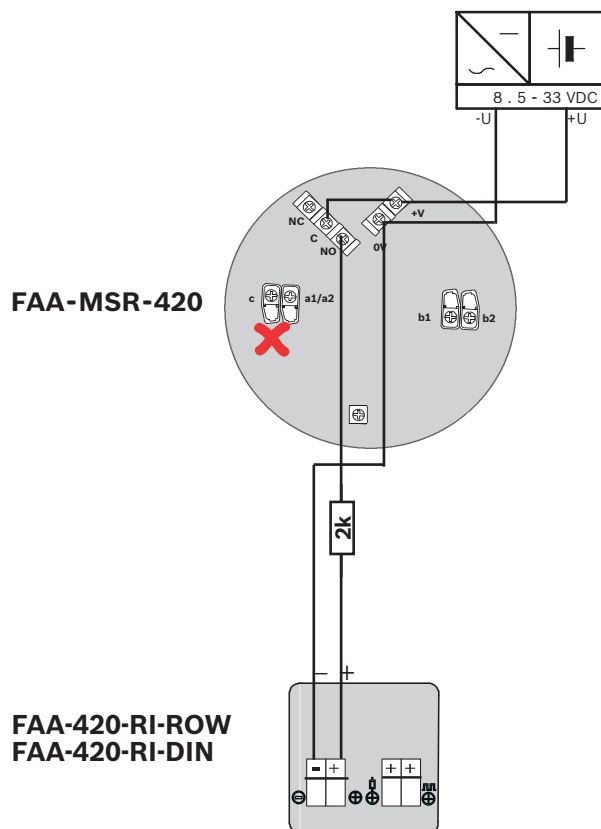
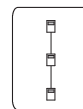
TSZ 0400

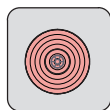
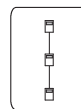
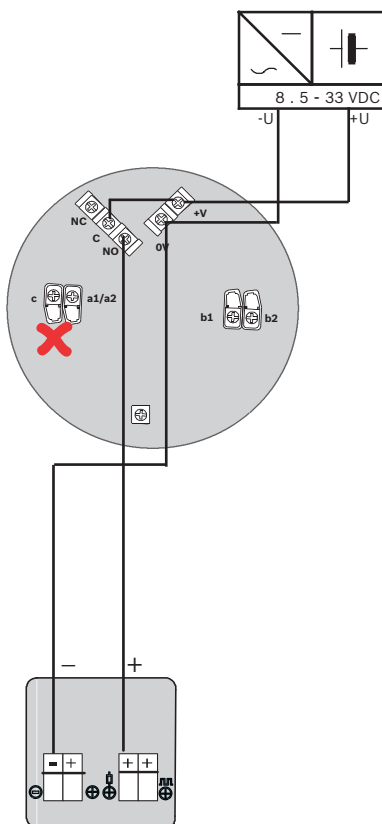
DIBT

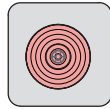
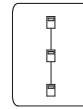
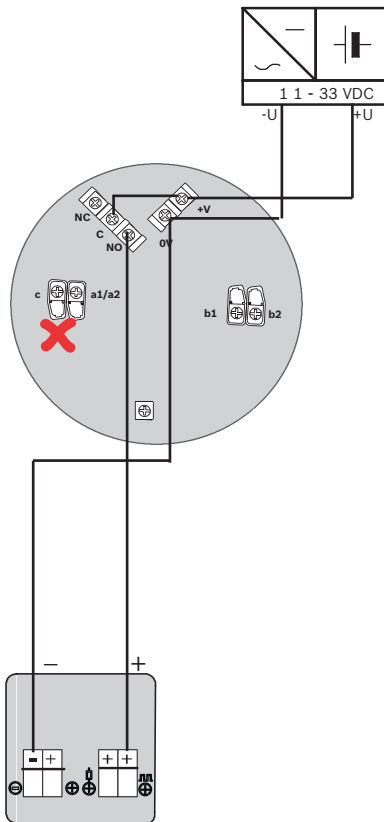




FAA-420-RI-ROW
FAA-420-RI-DIN



**FAA-420-RI-DIN****FAA-MSR-420****FAA-420-RI-DIN**

**FAA-420-RI-DIN****FAA-MSR-420****FAA-420-RI-DIN**

3.3

Functional Modules



BCM-000-B, pagina 42

CZM 0004 A, pagina 44

ENO 0000 A/B, pagina 48

LSN 0300 A, pagina 55

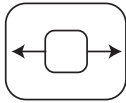
NZM 0002 A, pagina 90

RMH 0002 A, pagina 106

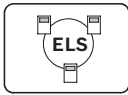
IOS 0020 A, pagina 109

FPE-5000-UGM, pagina 112

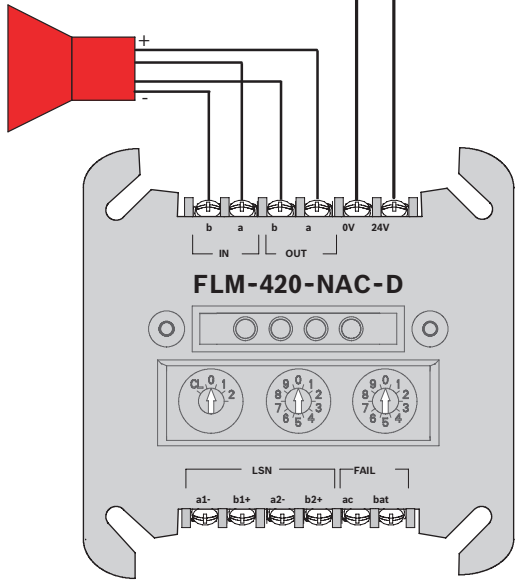
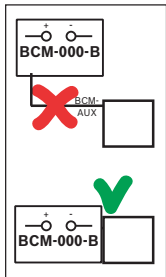
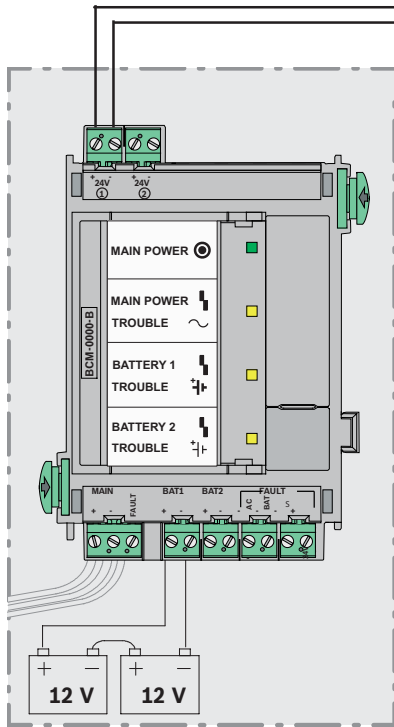
3.3.1 BCM-000-B

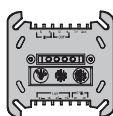
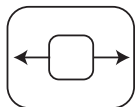


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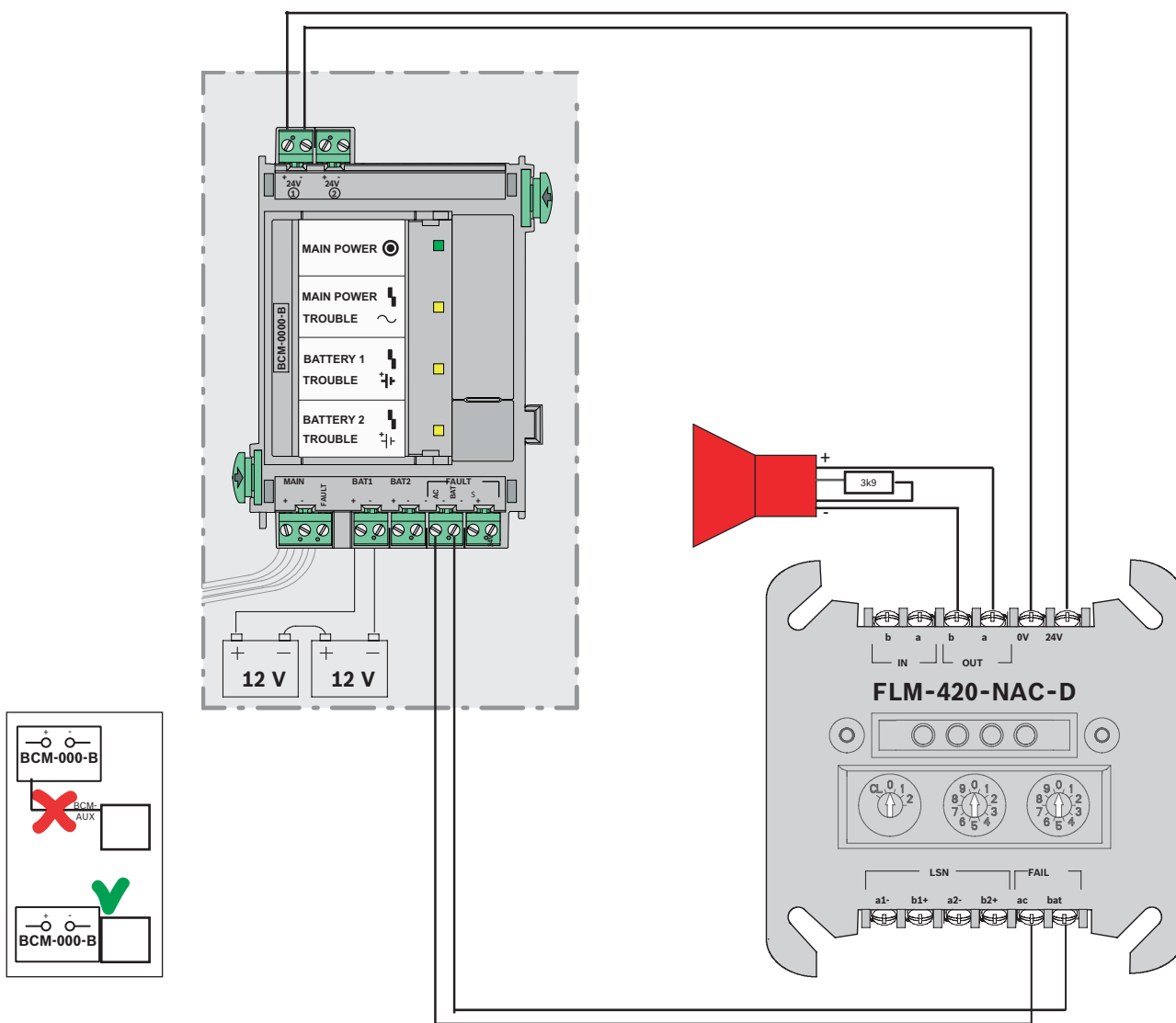
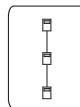


VdS 2489





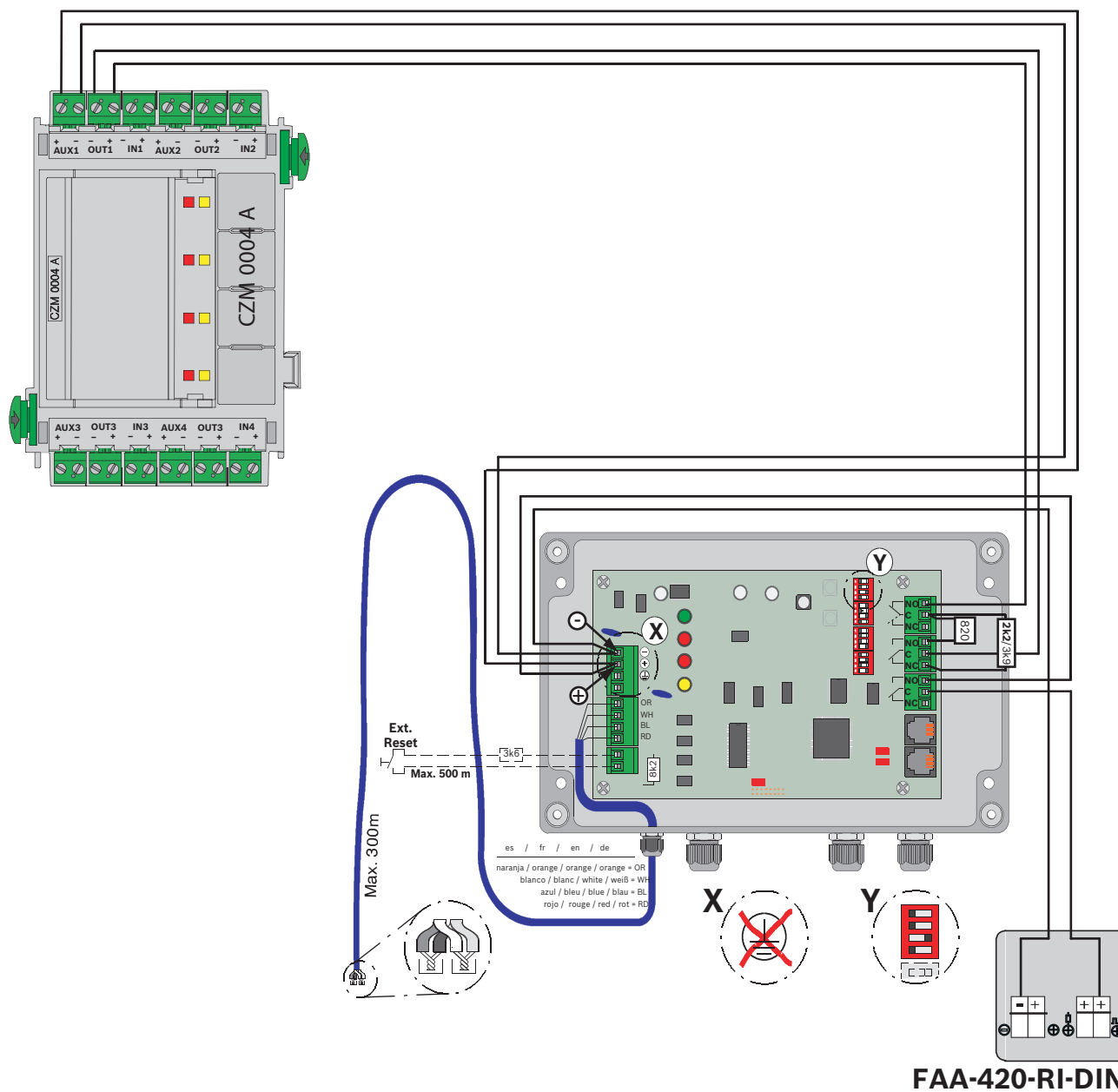
FLM-420-NAC-D

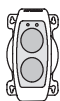


3.3.2 CZM 0004 A

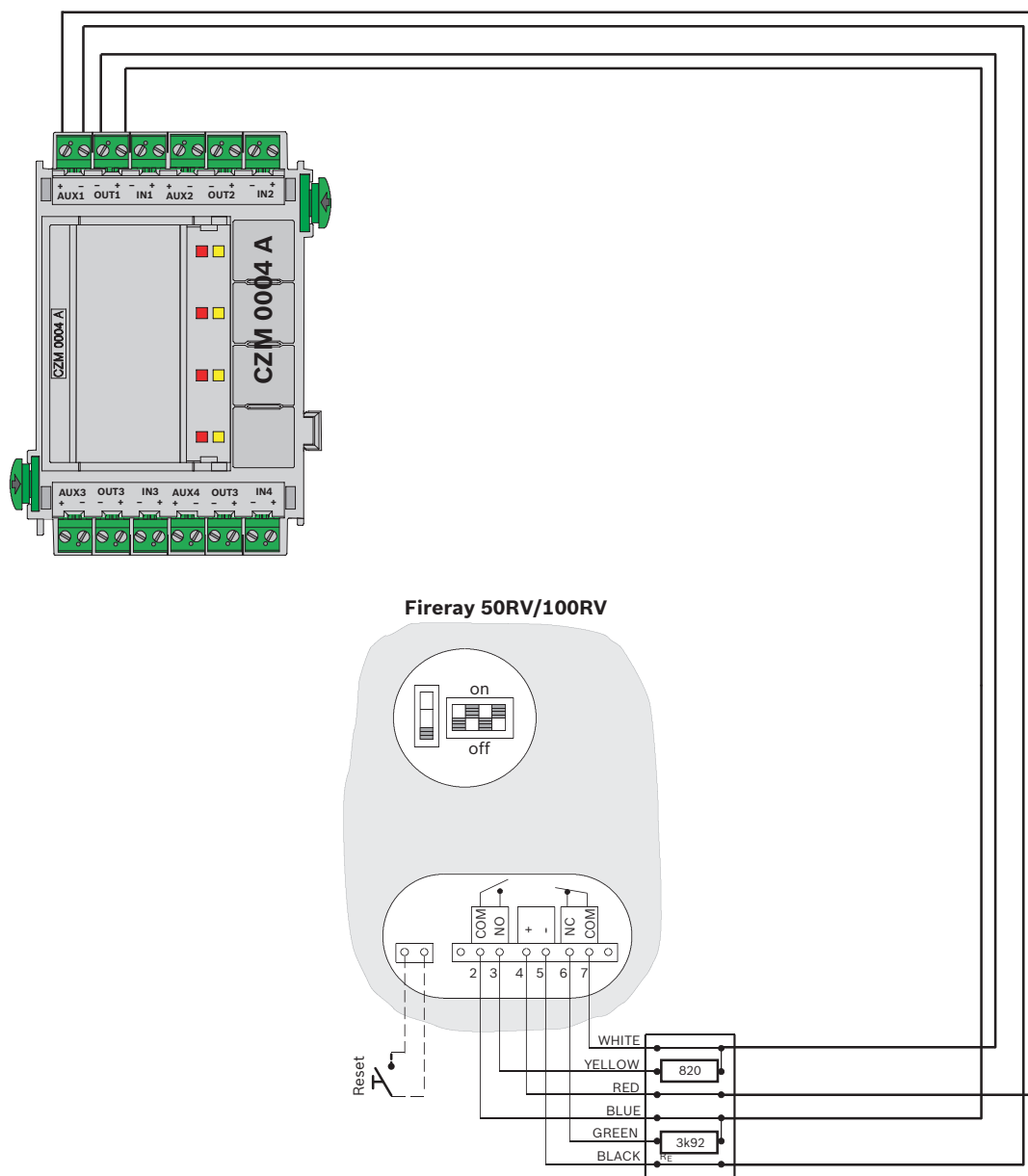


FCS-LWM-1



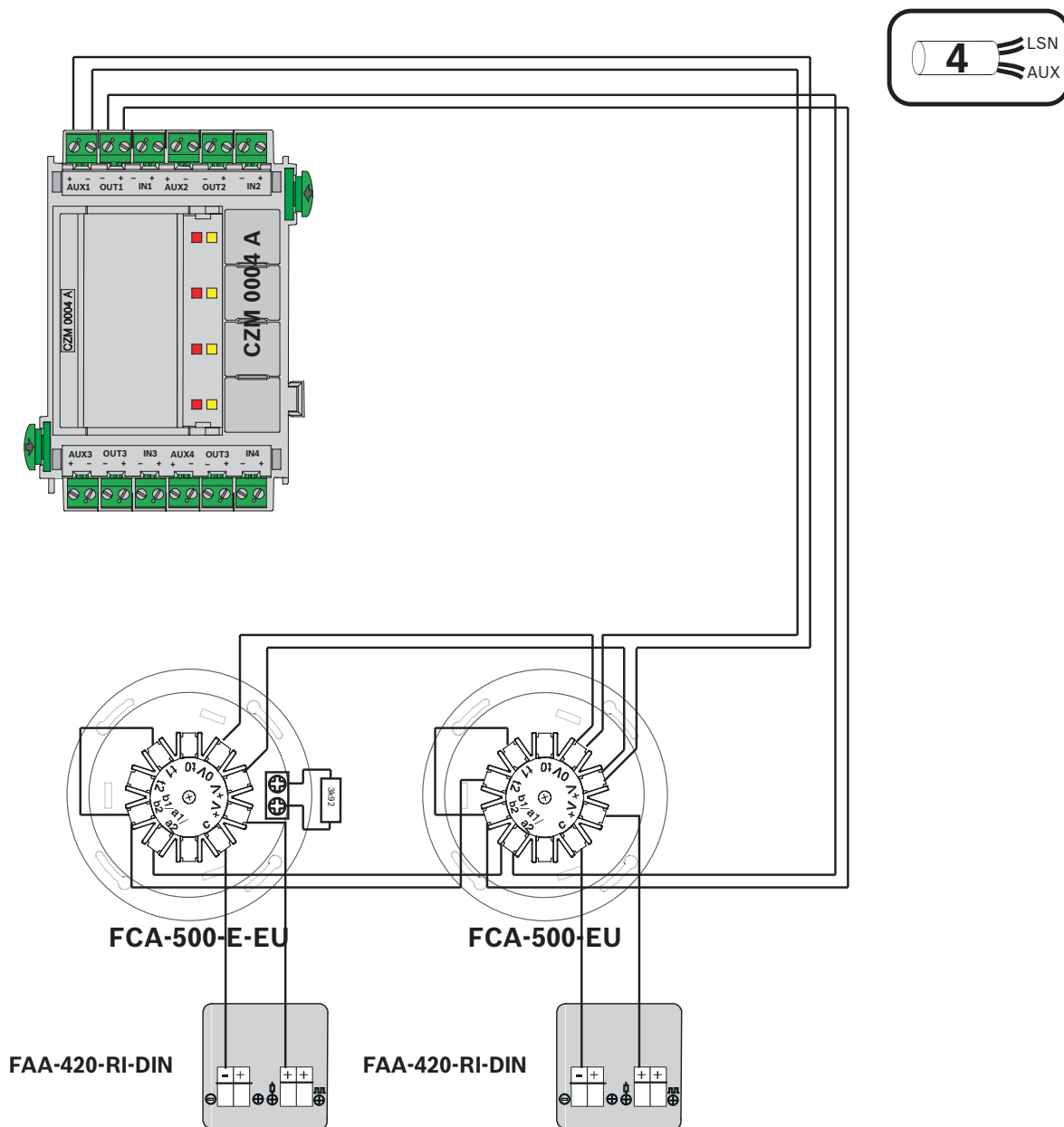
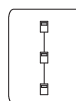


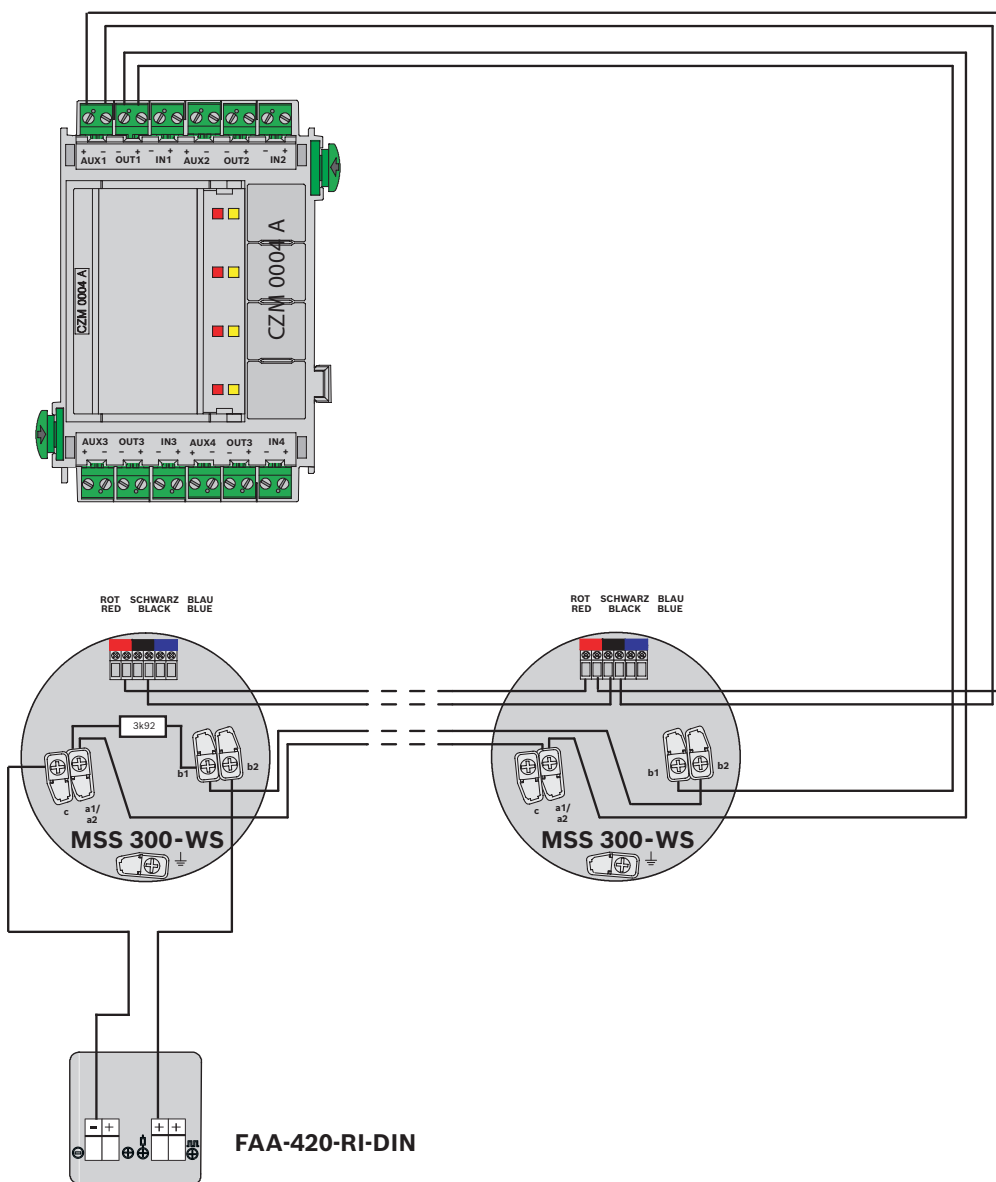
**Fireray 50RV
Fireray 100RV**





FCP-500

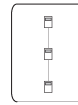


**MSS 300-WS**

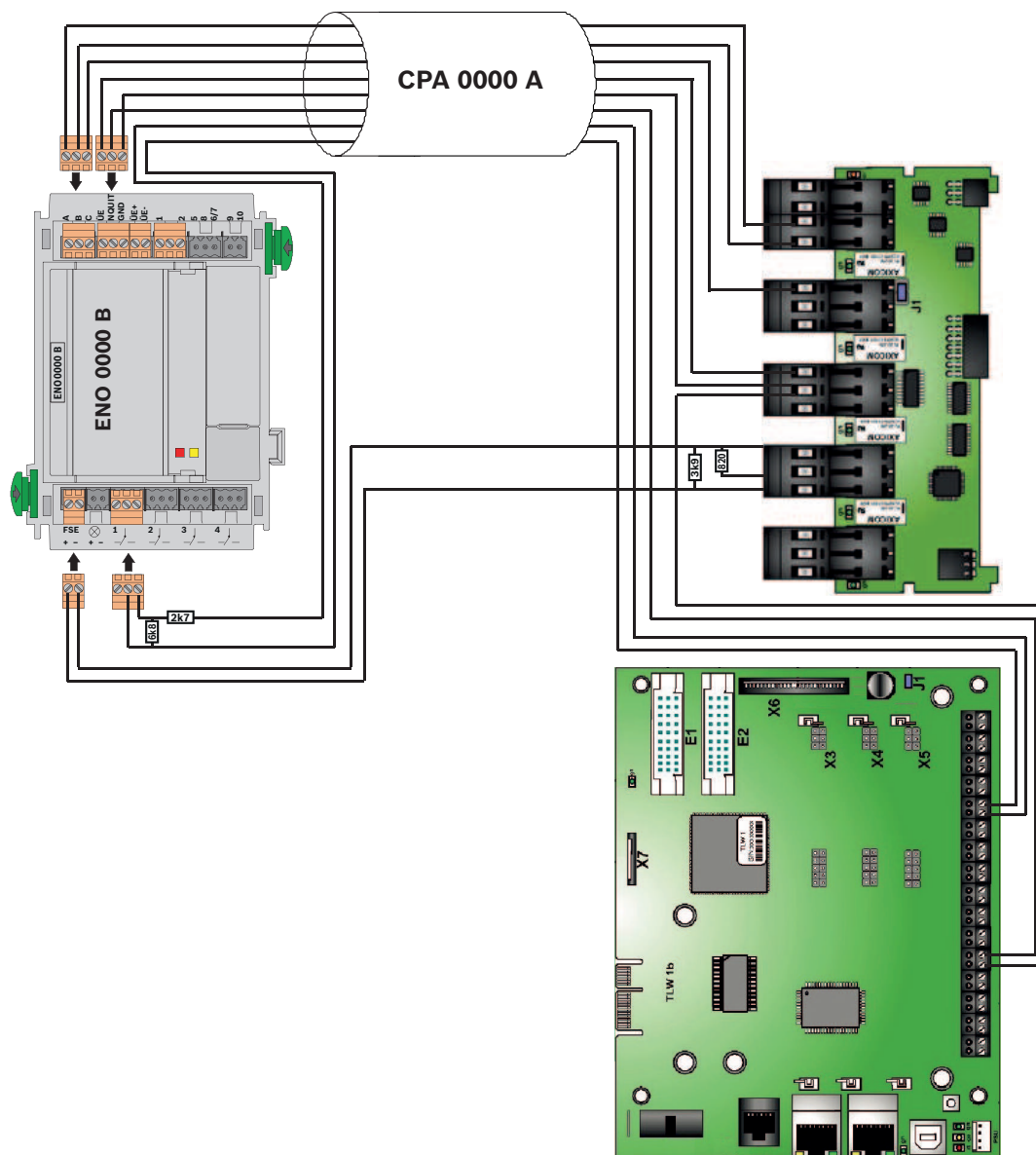
3.3.3 ENO 0000 A/B

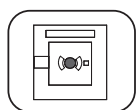


AT5000 IP/GPRS

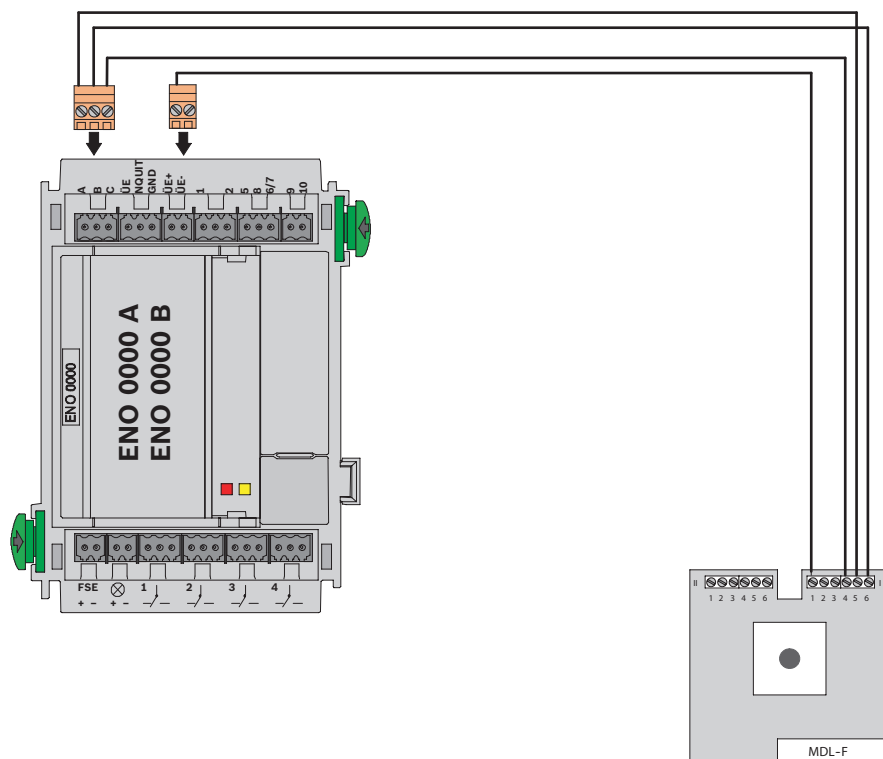


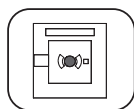
EN 54-2



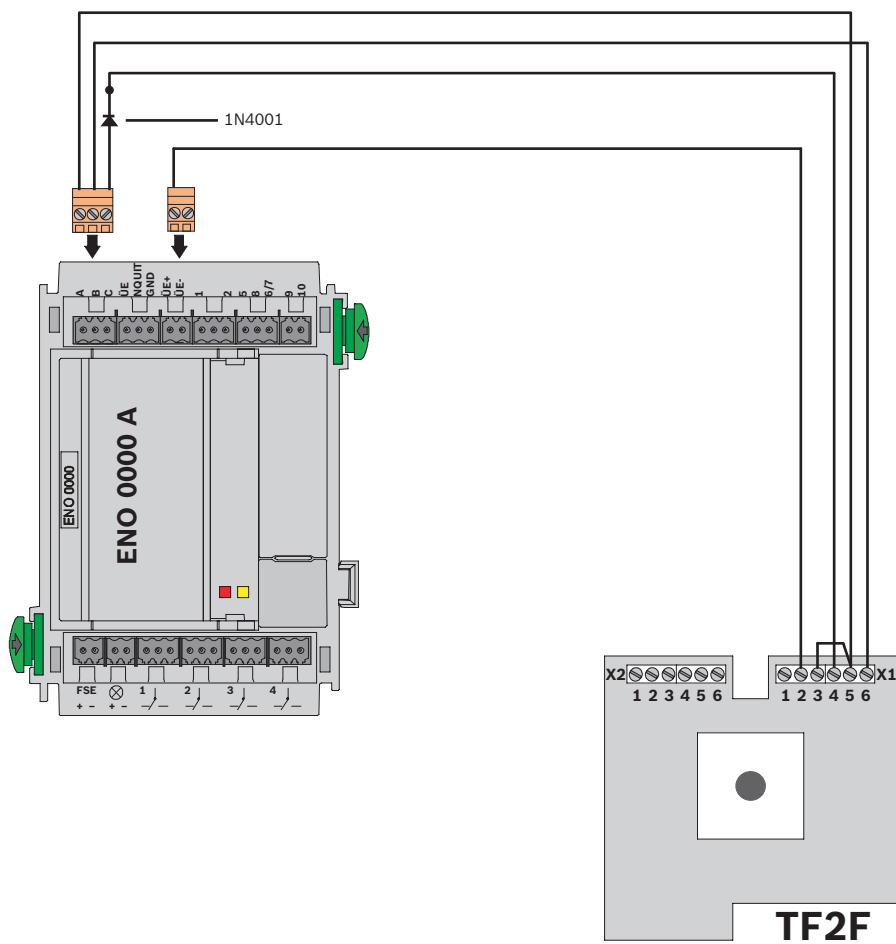
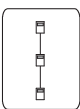


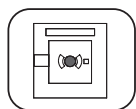
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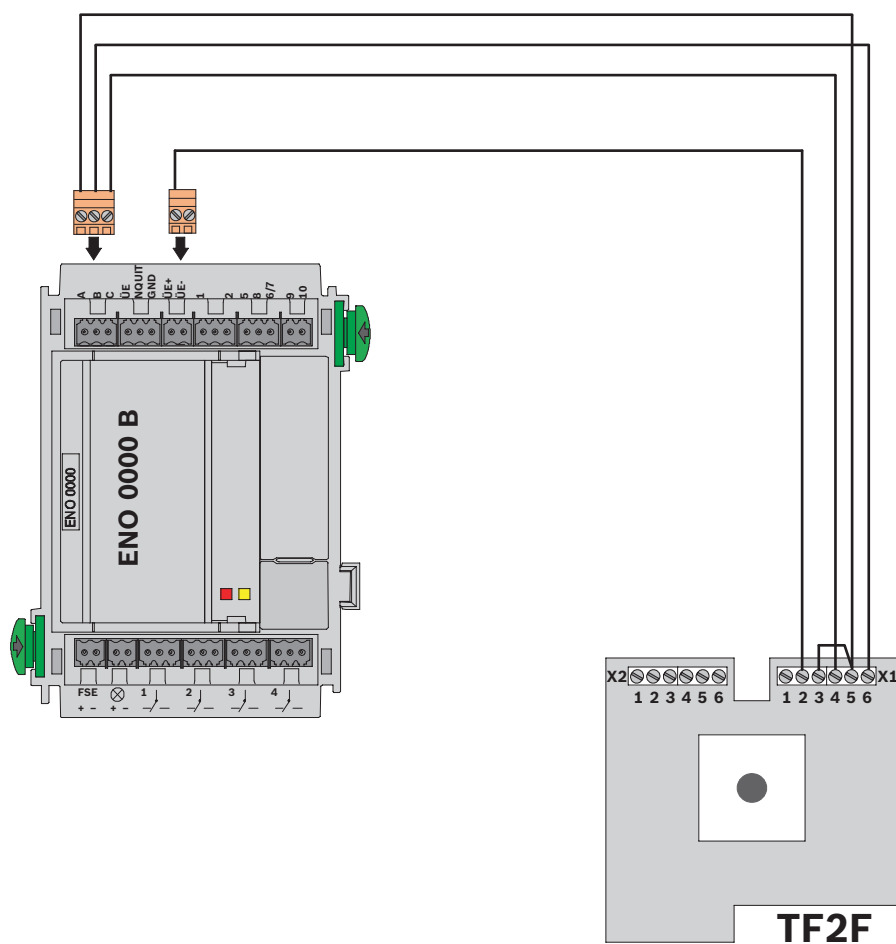
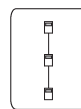


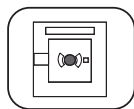
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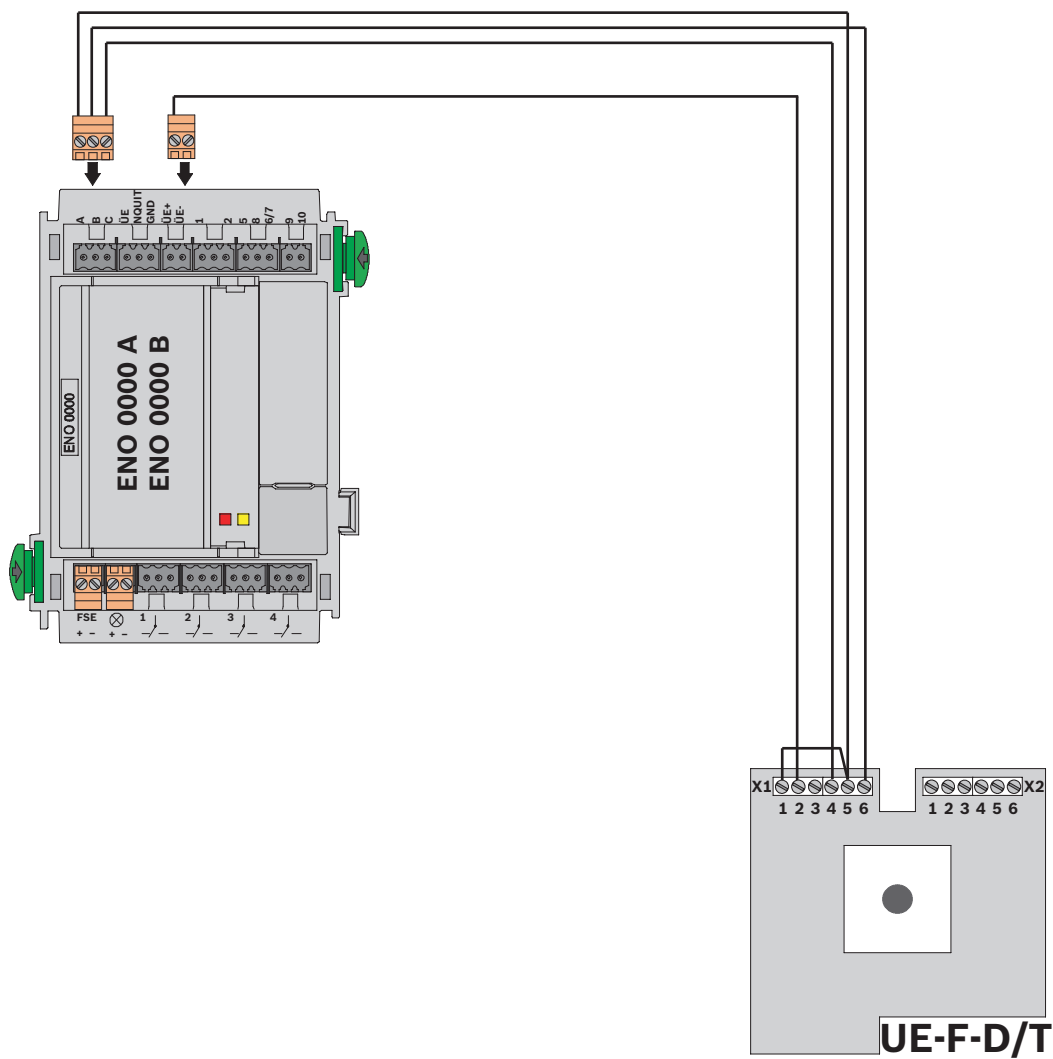


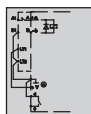
TF2F



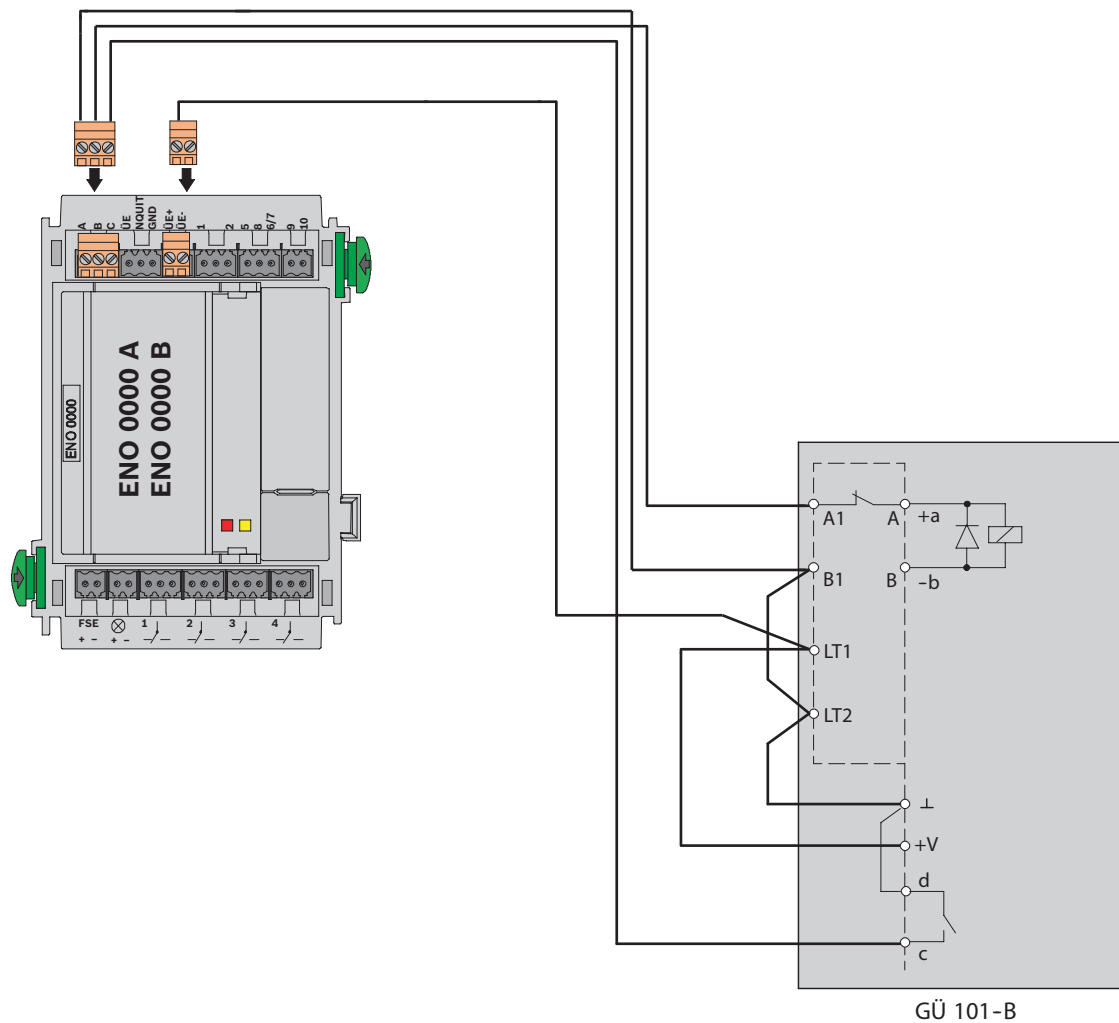
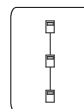


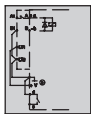
UE-F-D/T



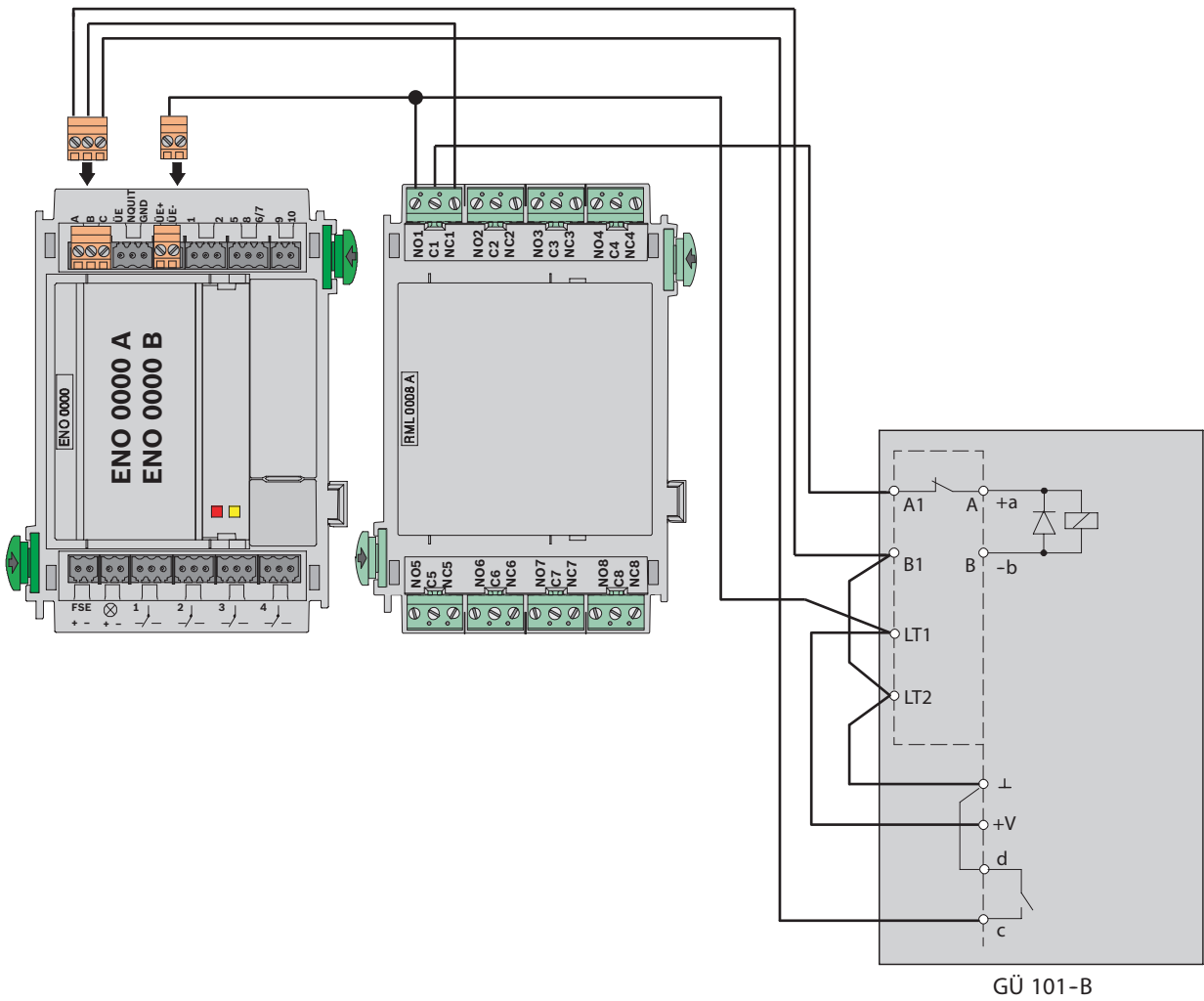
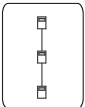


GÜ 101-B





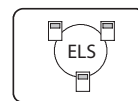
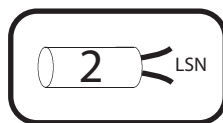
GÜ 101-B



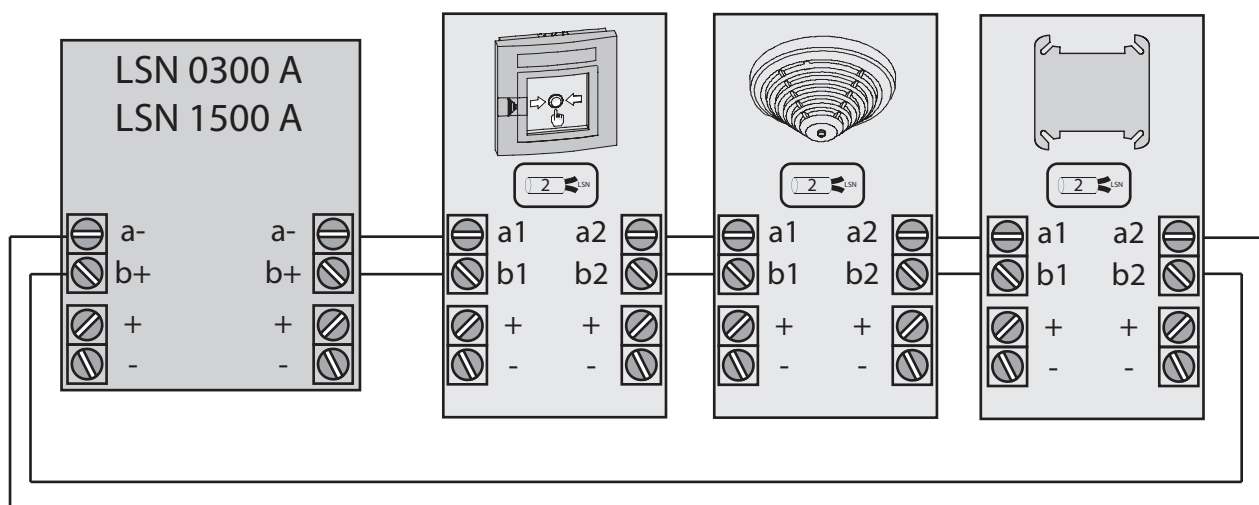
GÜ 101-B

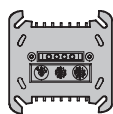
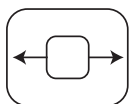
3.3.4

LSN 0300 A

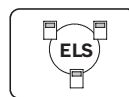


VdS 2489

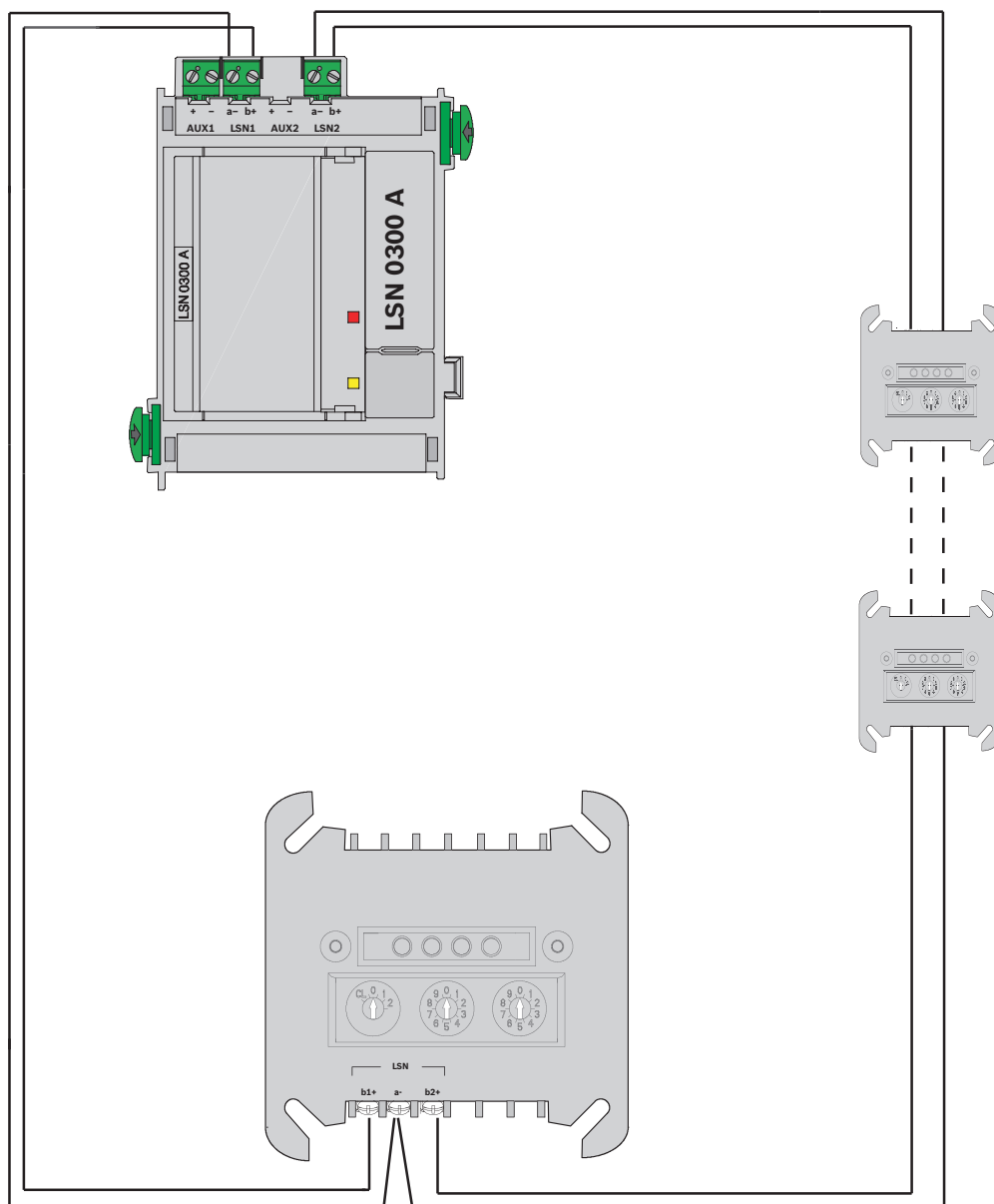


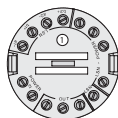
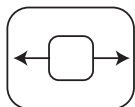


FLM-I 420-S
FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

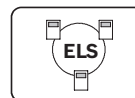


VdS 2489

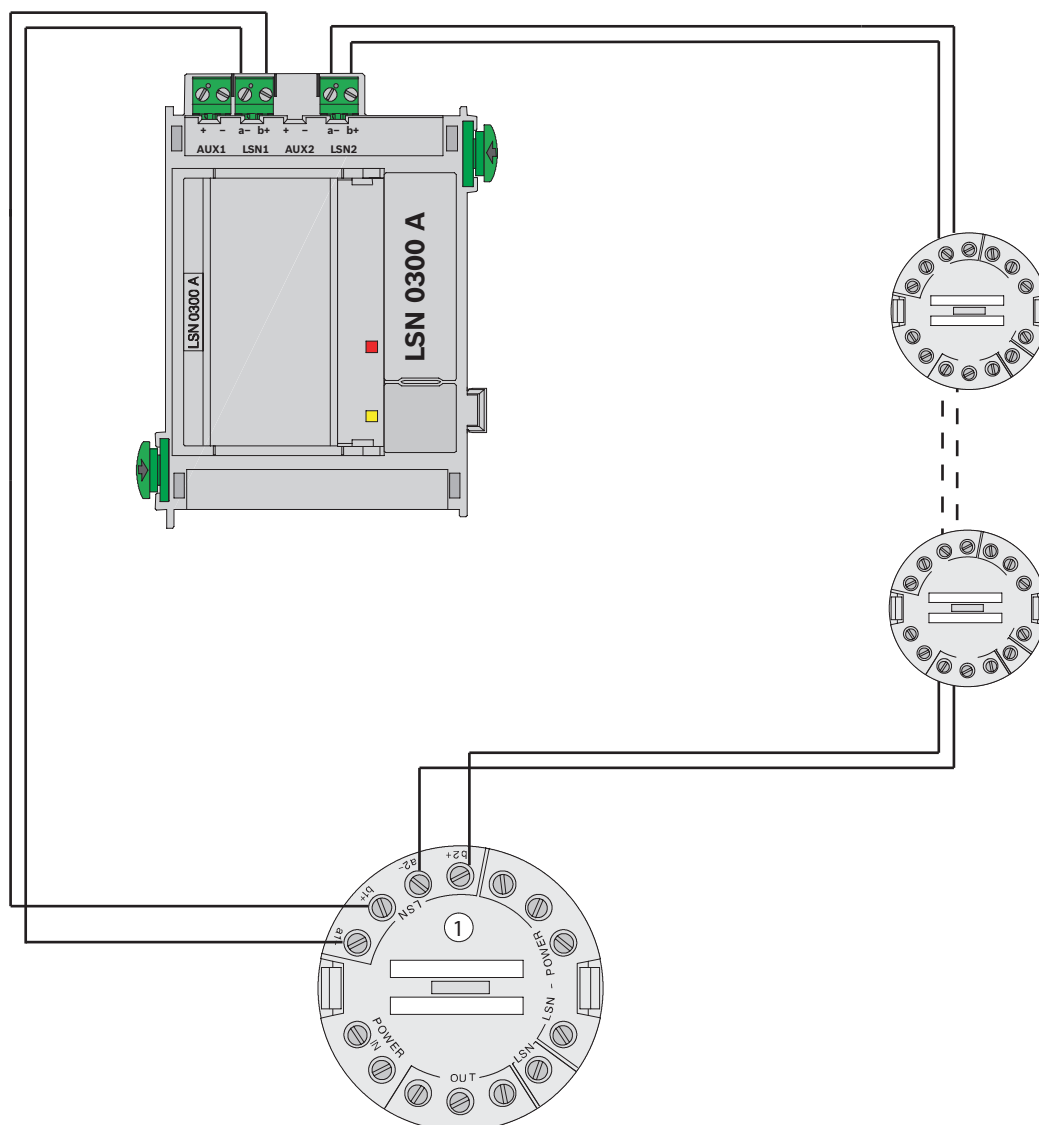


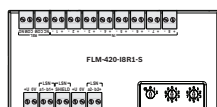
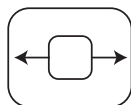
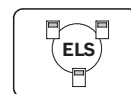
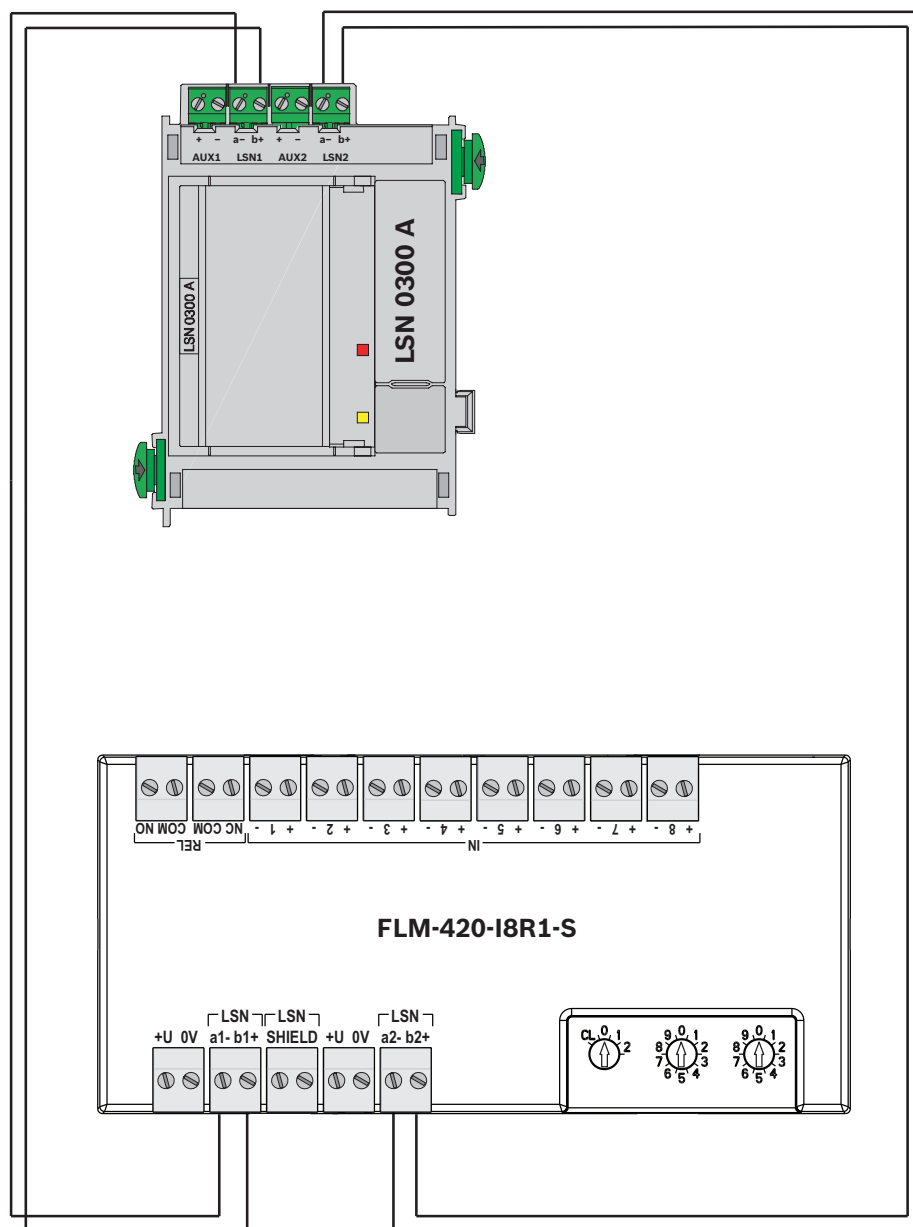


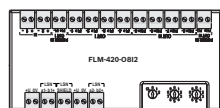
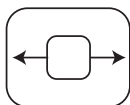
FLM-420-I2-E/W
FLM-420-RLV1-E



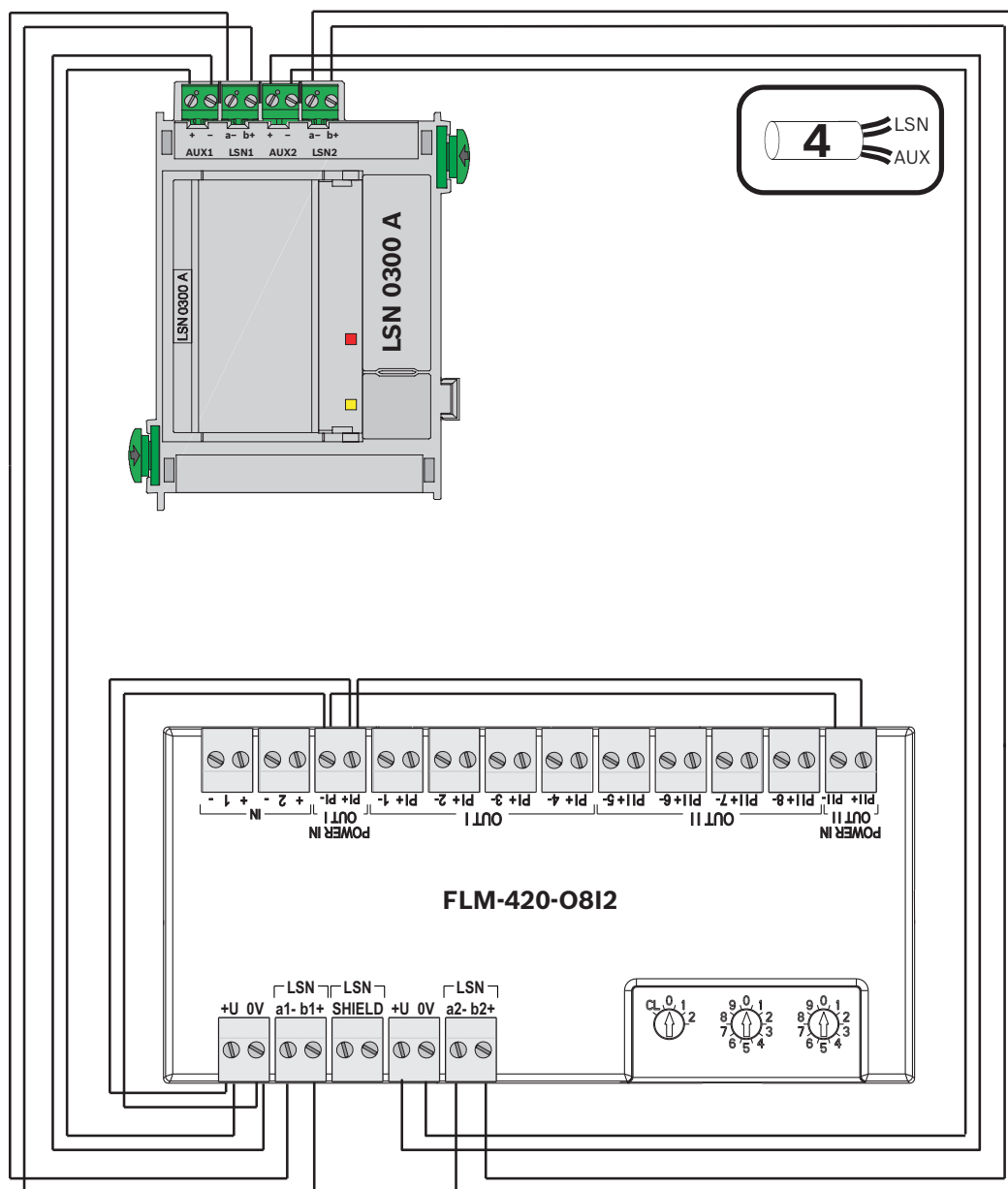
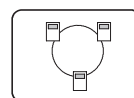
VdS 2489

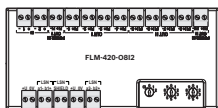
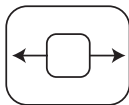


**FLM-420-I8R1-S****VdS 2489**

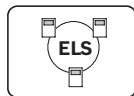


FLM-420-O8I2-S

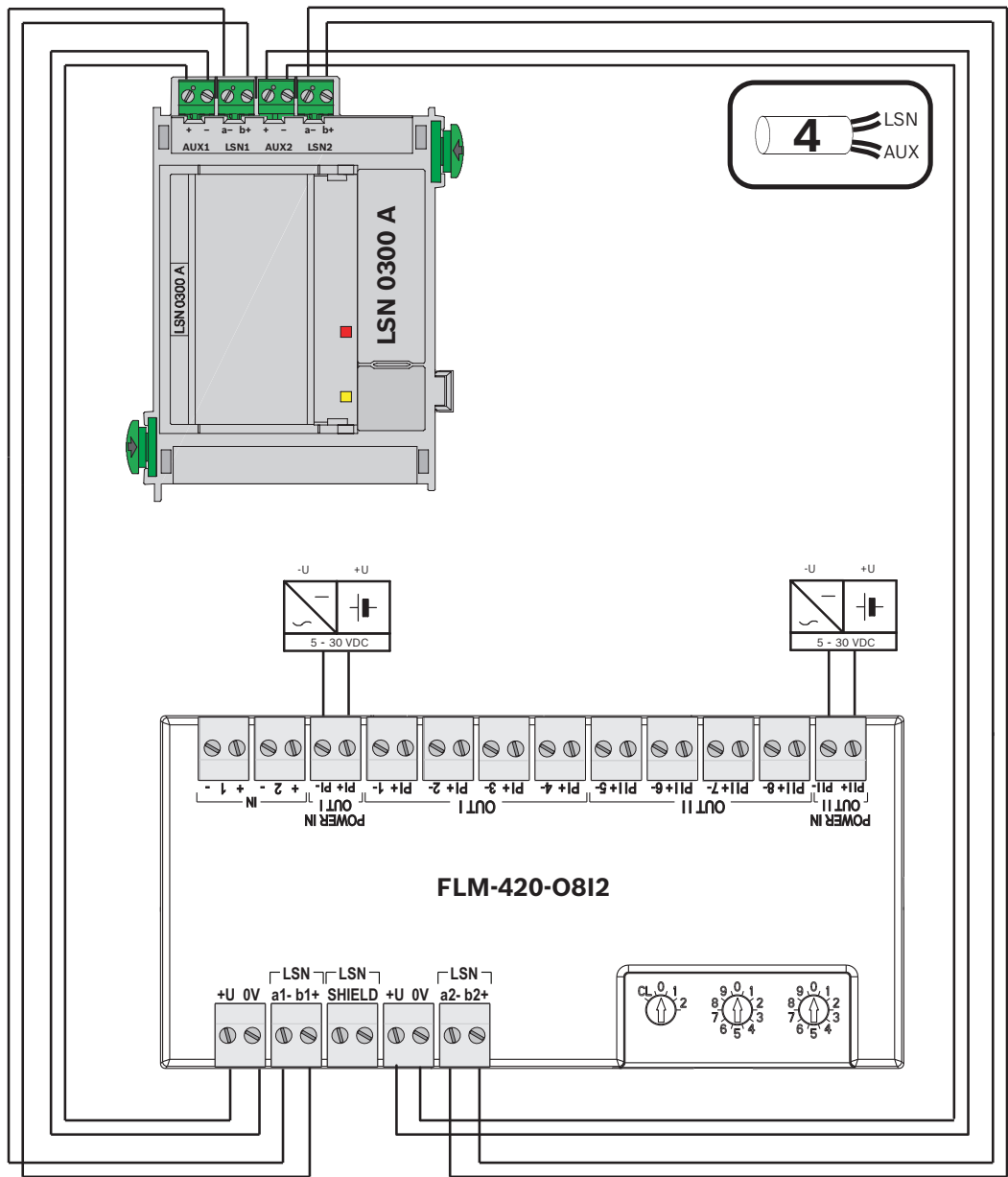


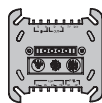
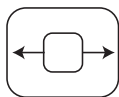


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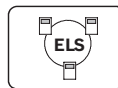


VdS 2489

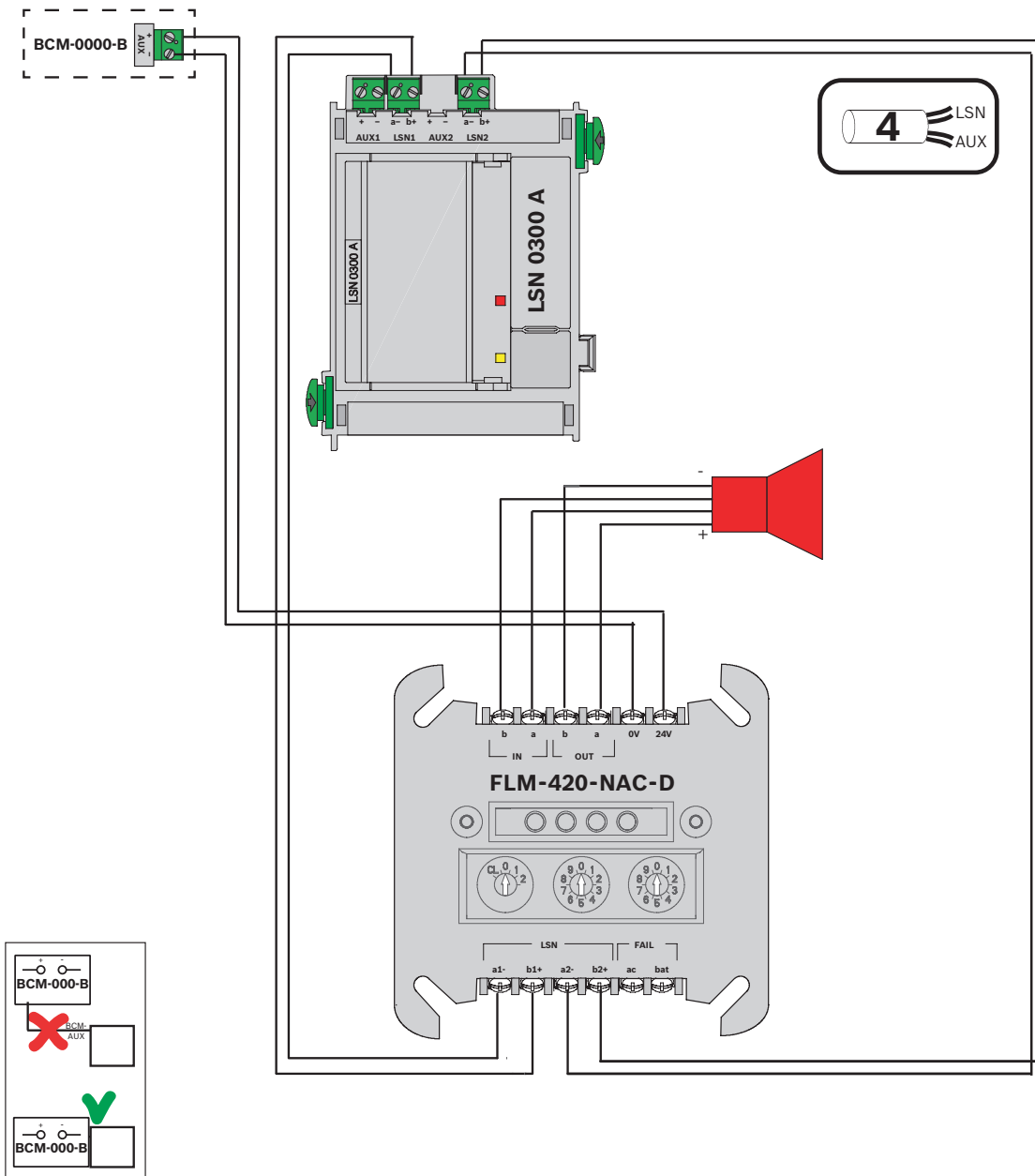


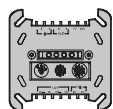
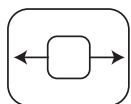
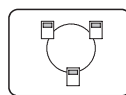
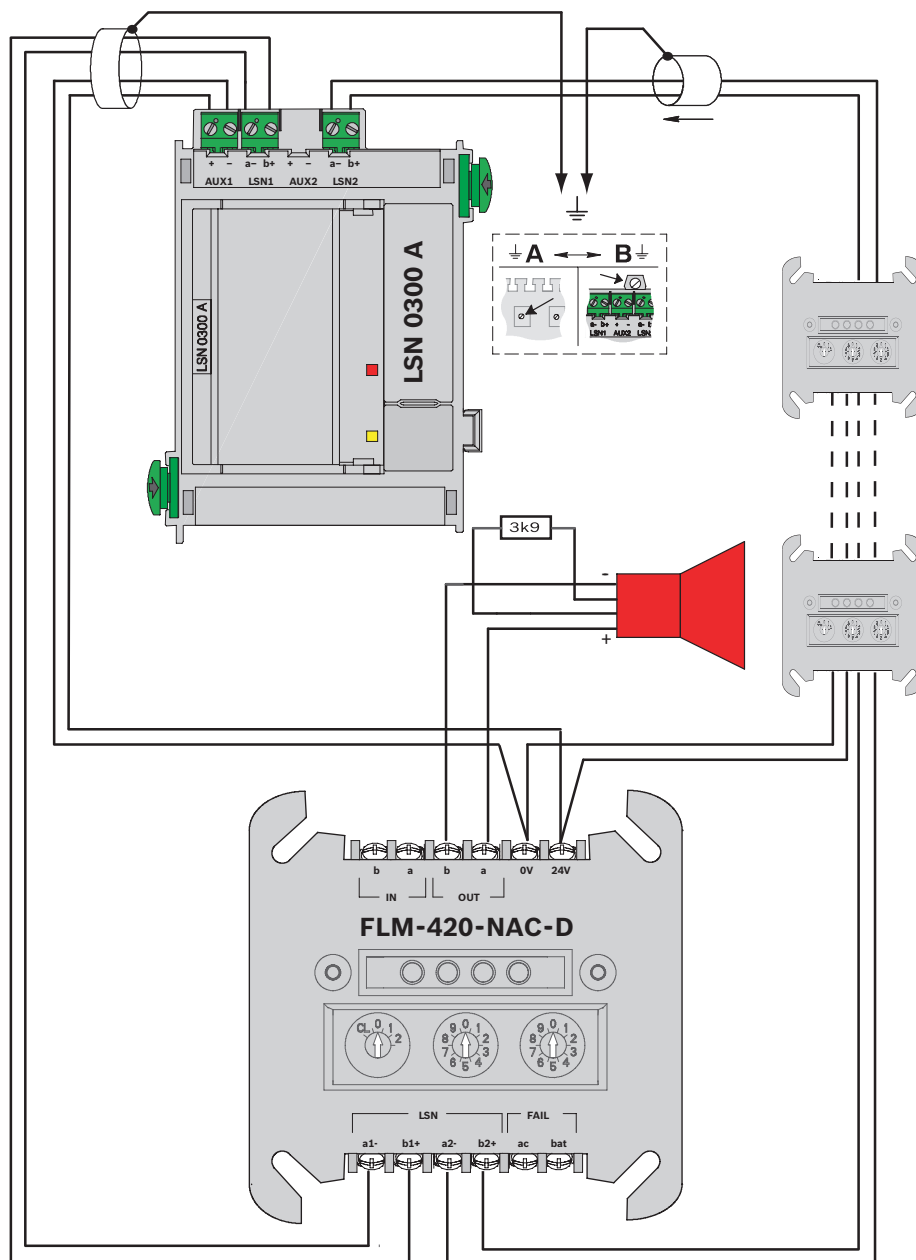


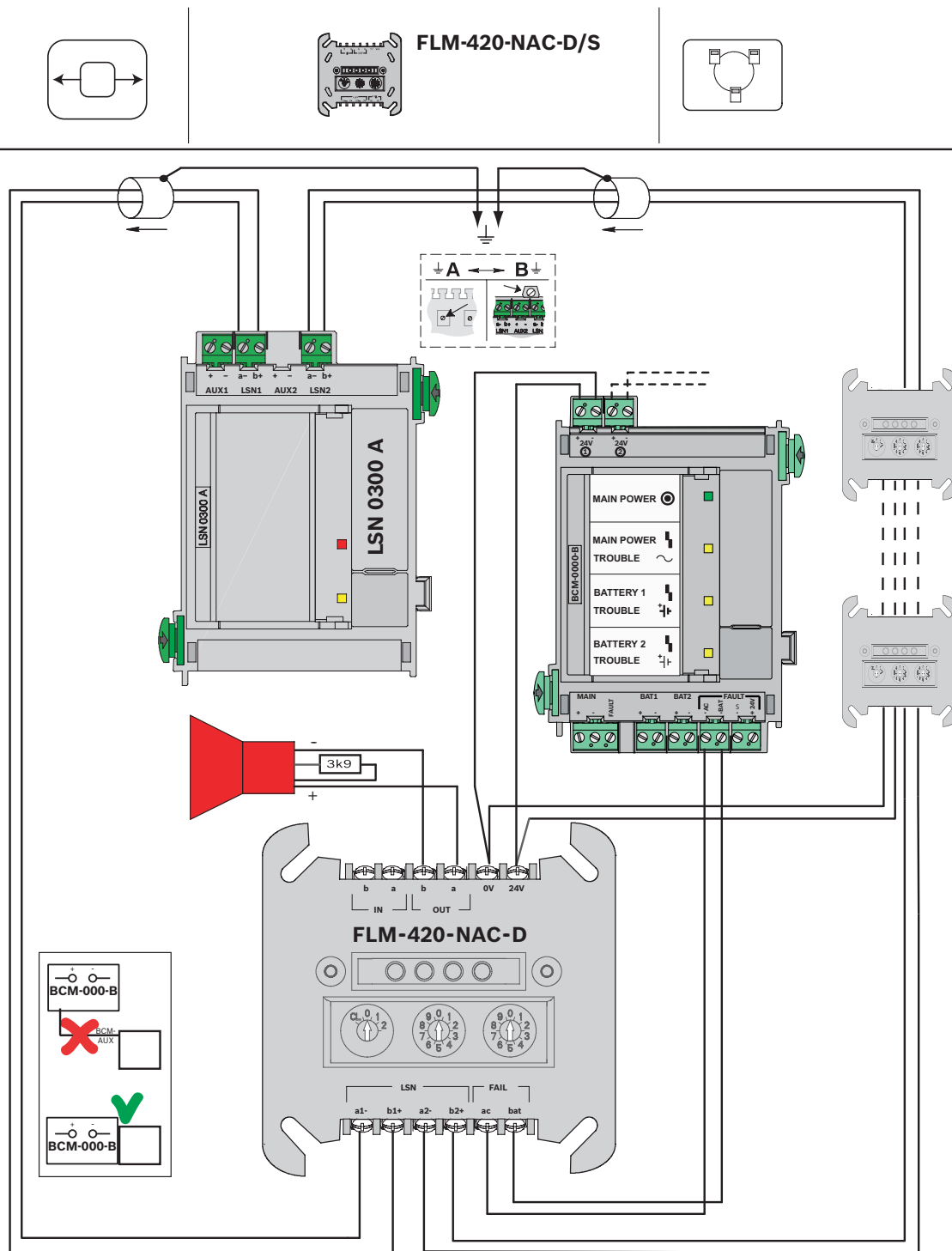
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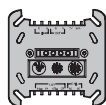
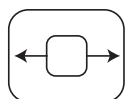


VdS 2489

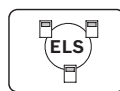


**FLM-420-NAC-D/S****EN 54-2**

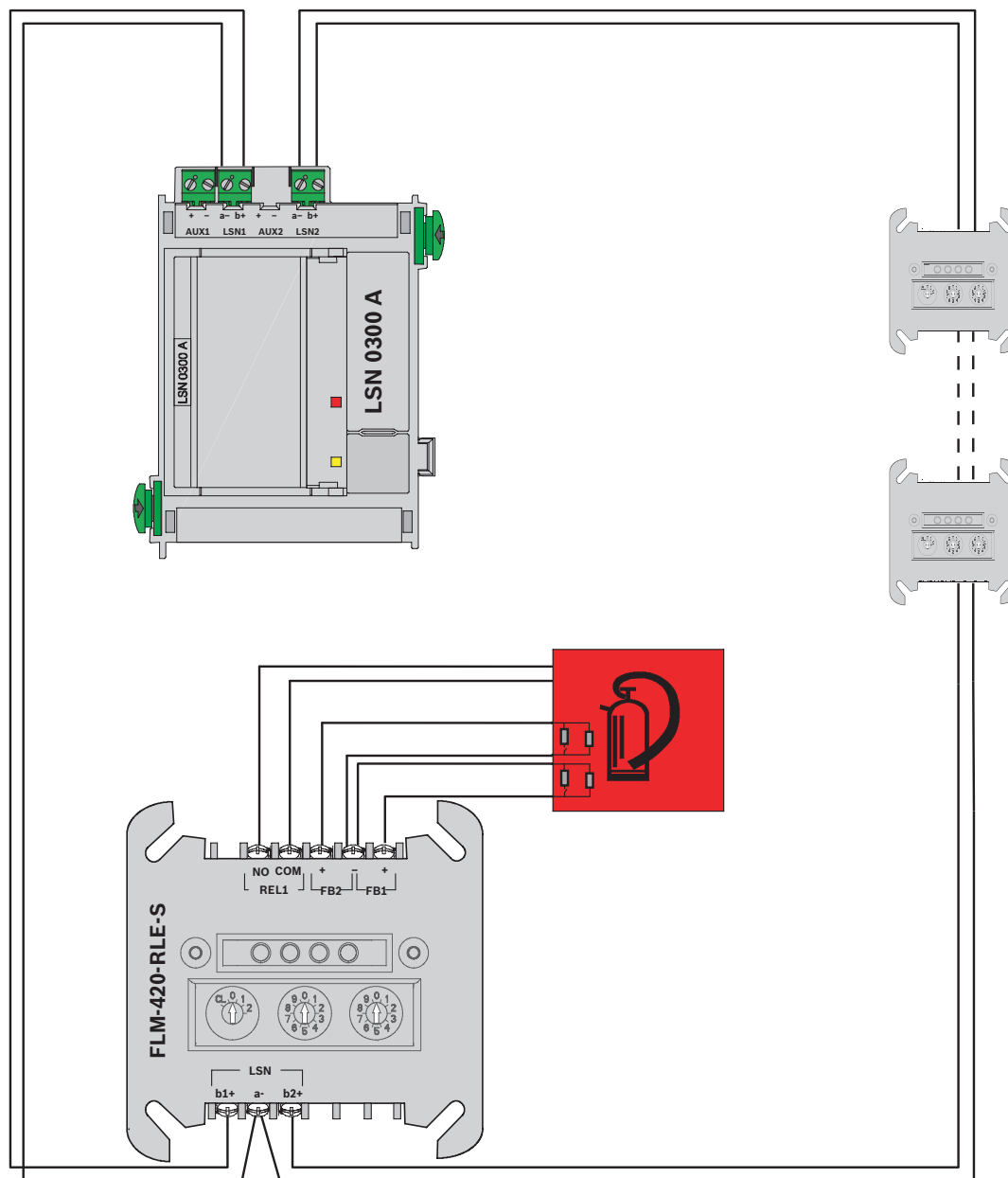


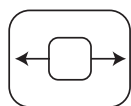
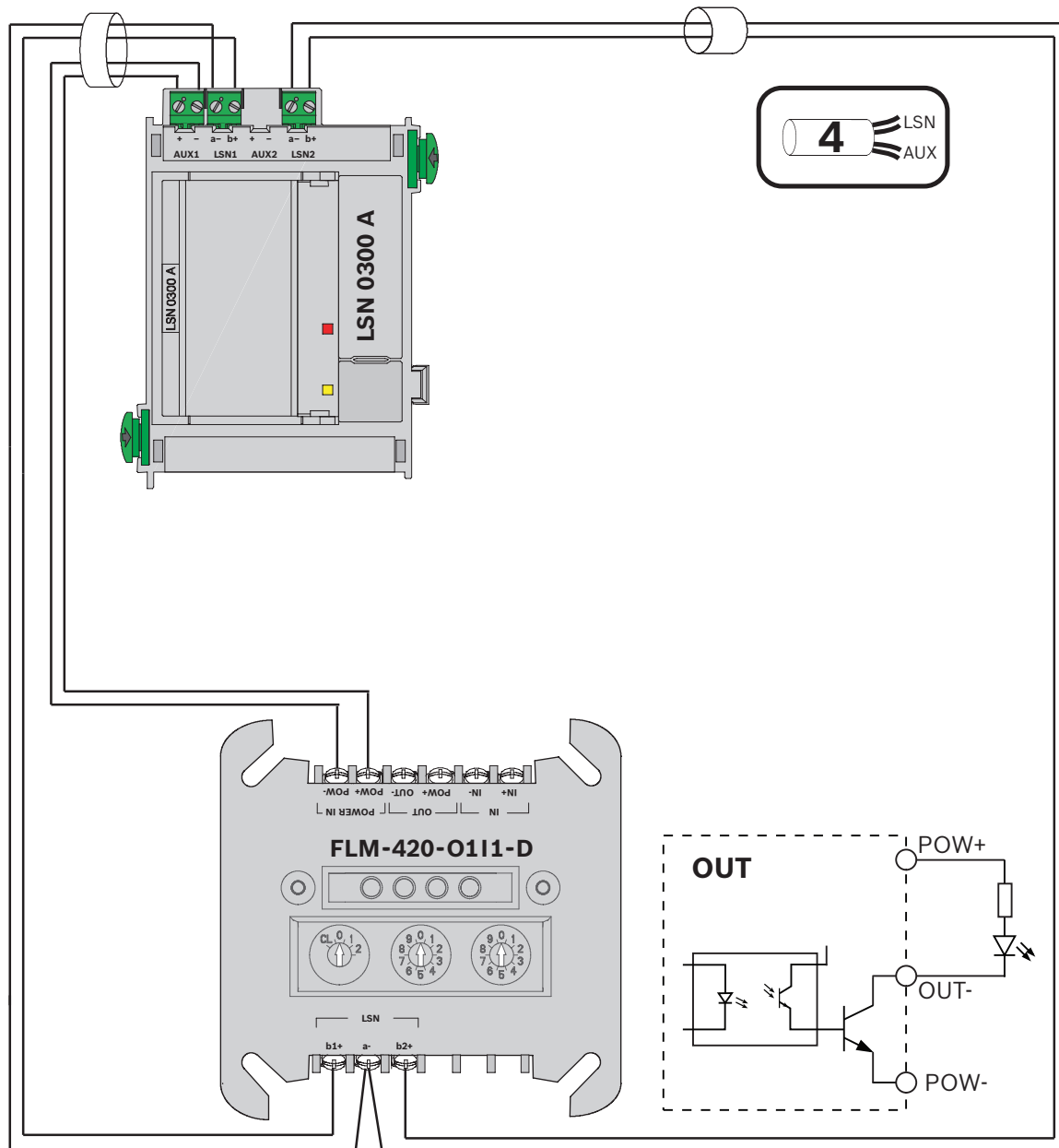
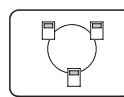


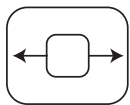
FLM-420-RLE-S



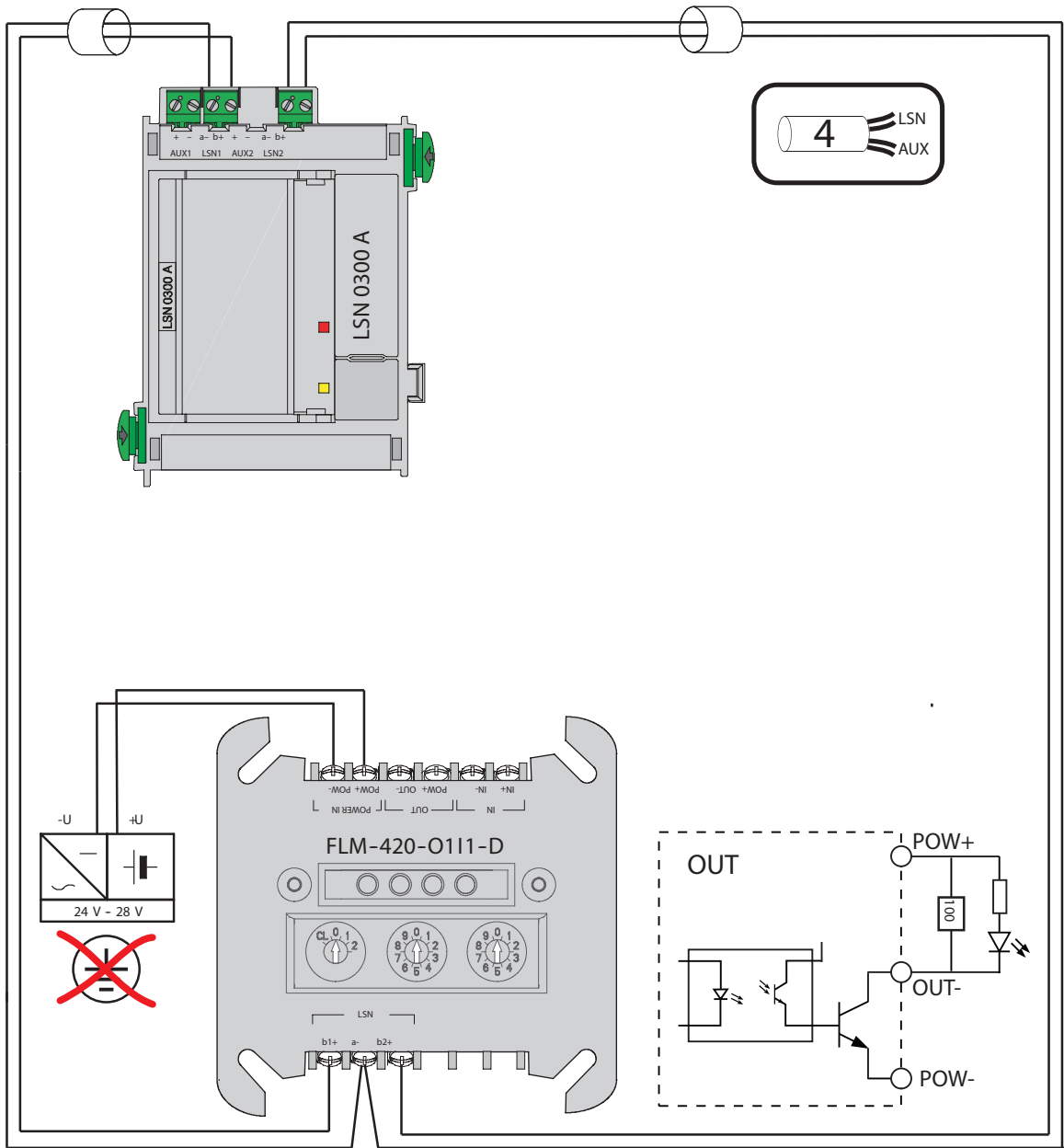
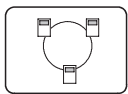
VdS 2489

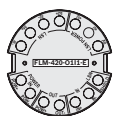
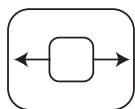


**FLM-420-O1I1-D**

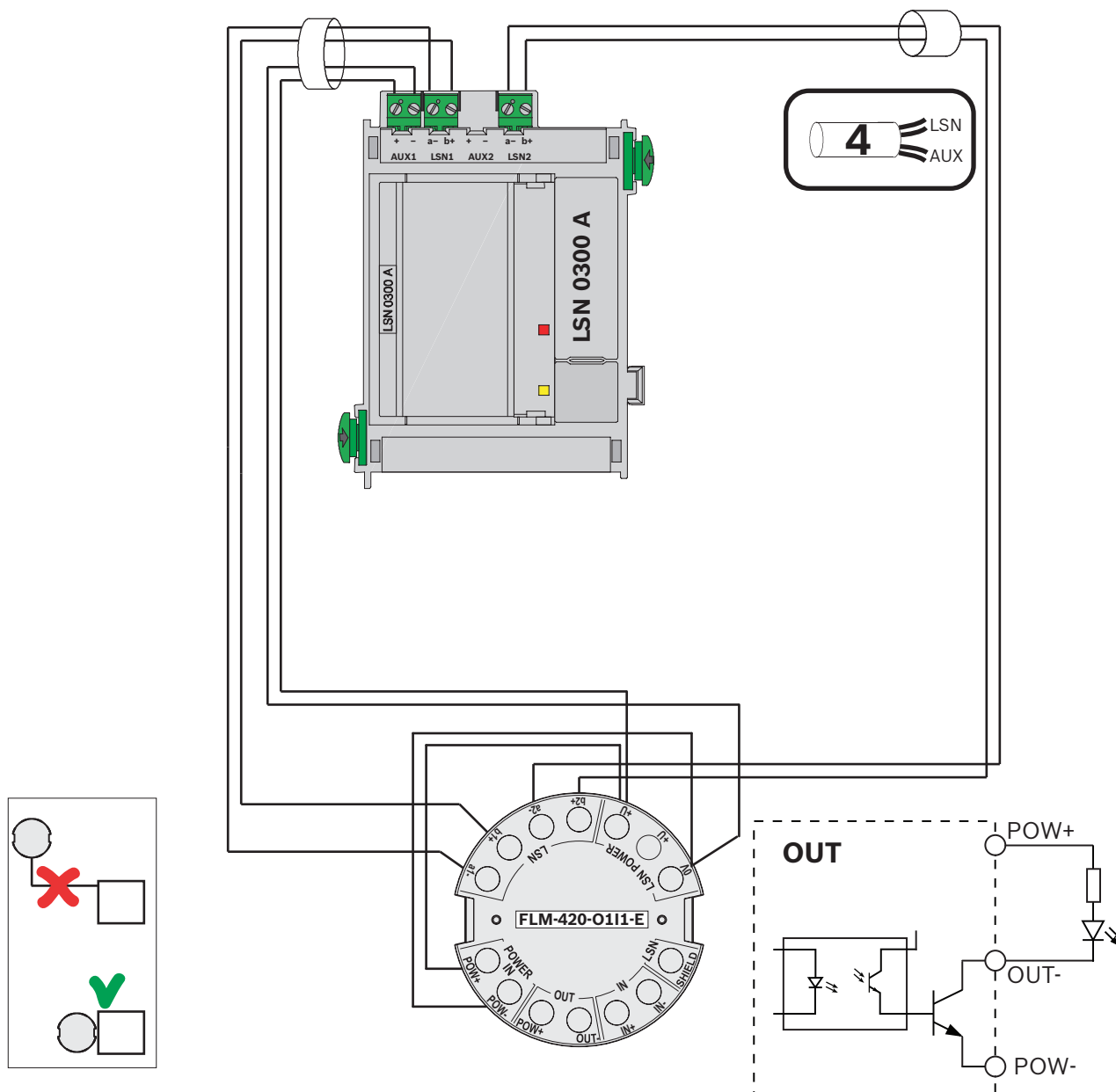
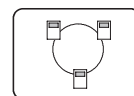


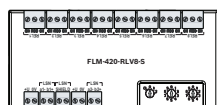
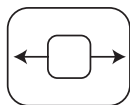
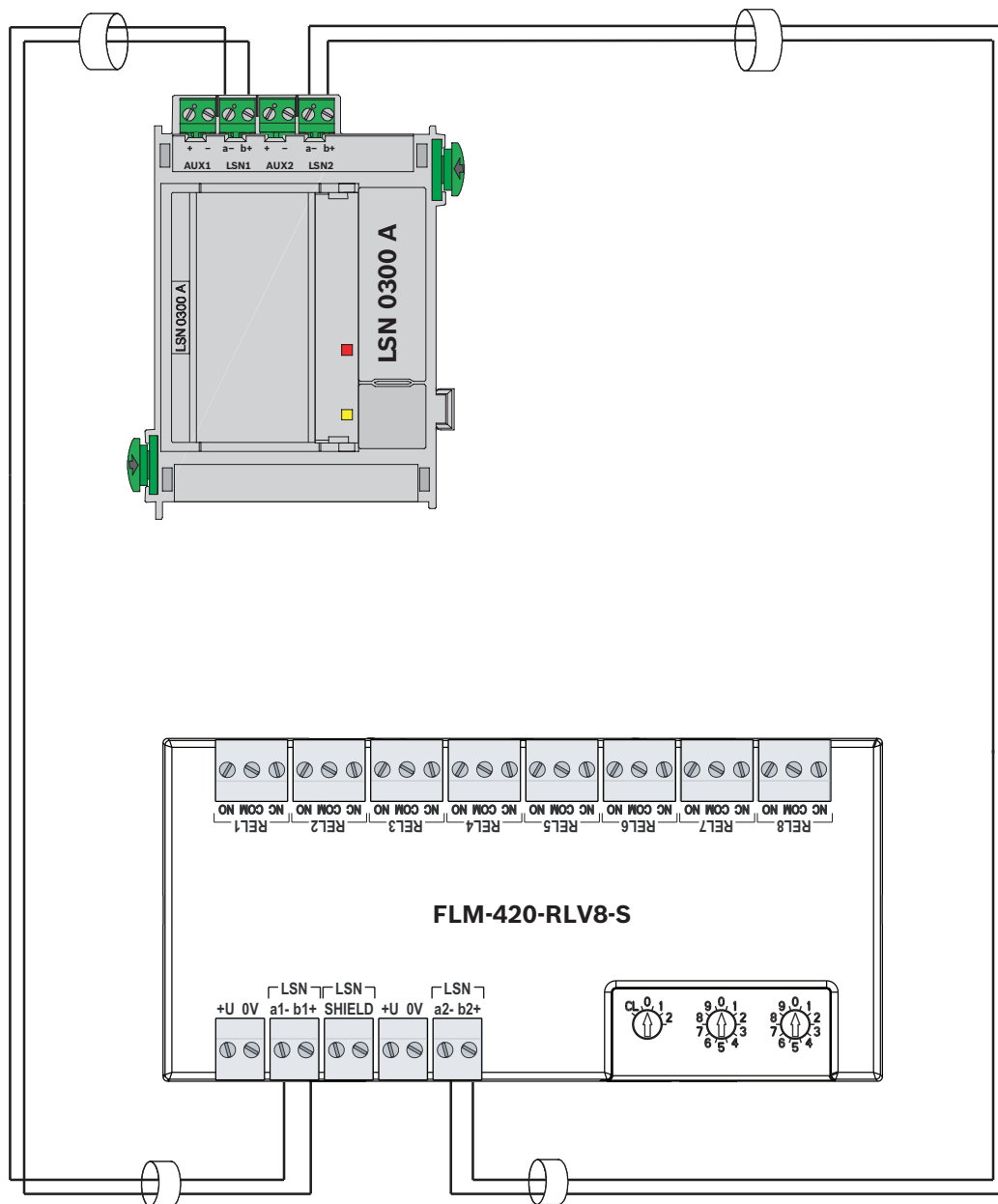
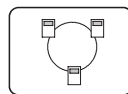
FLM-420-O111-D





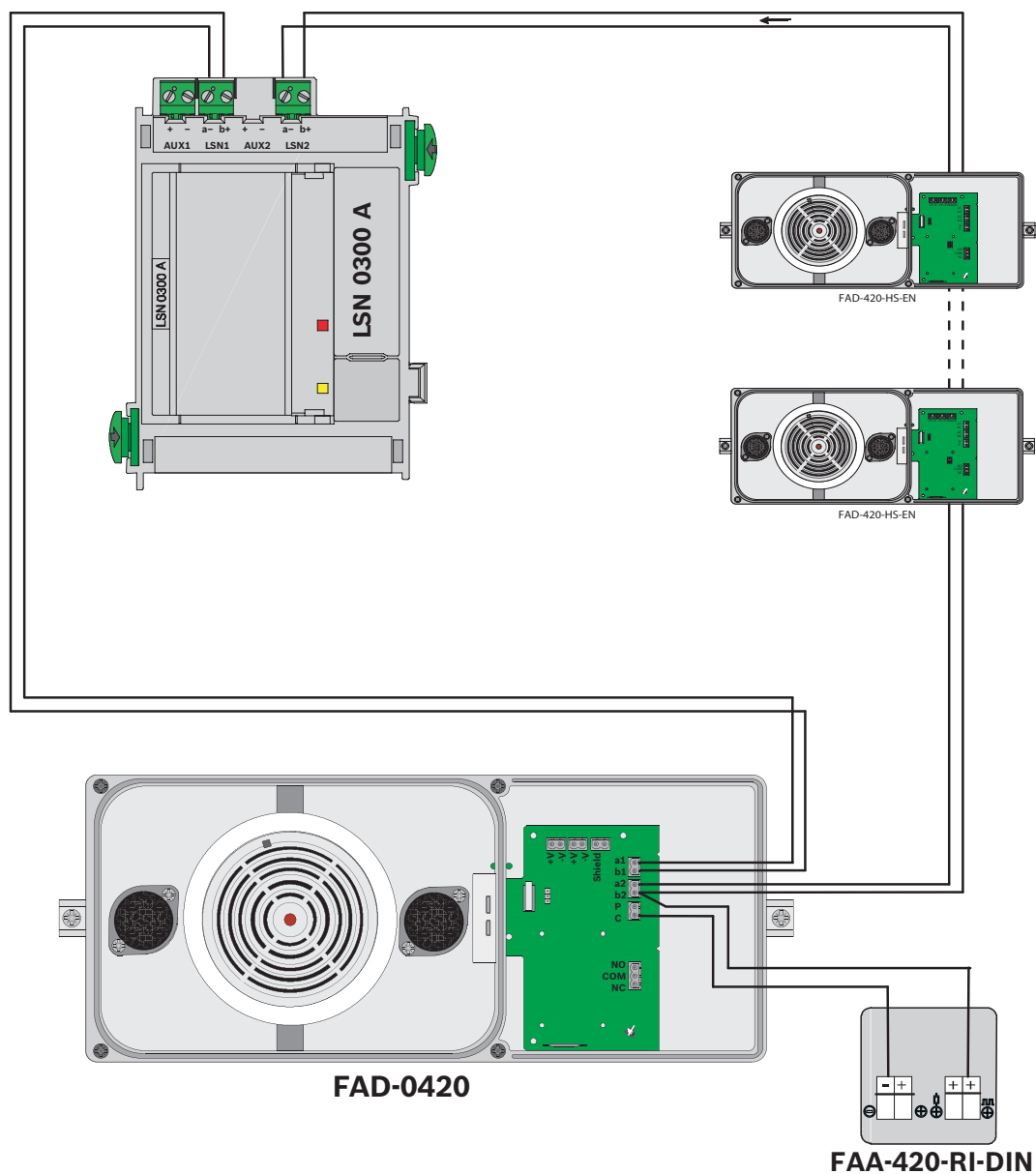
FLM-420-O1I1-E

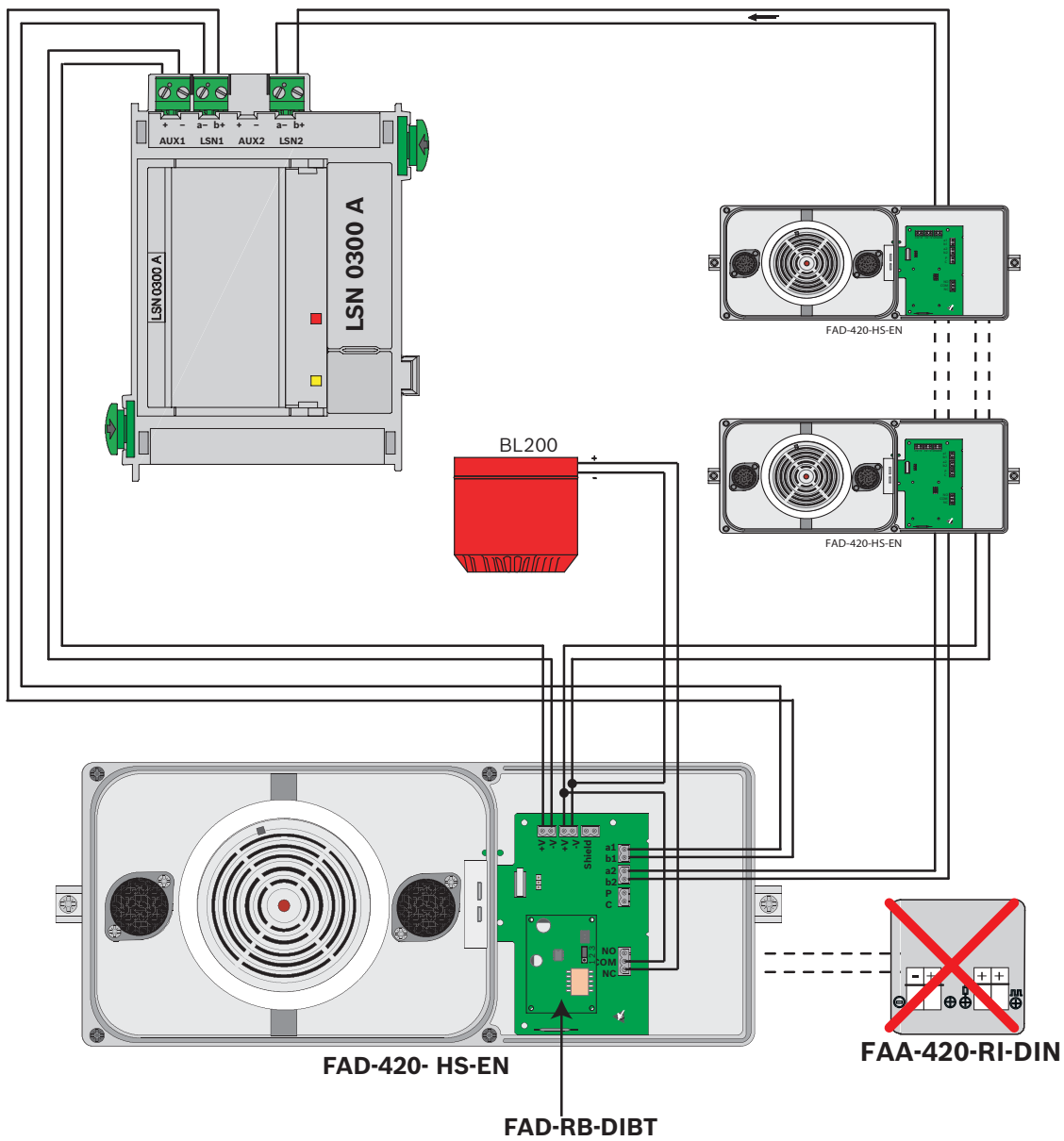


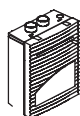
**FLM-420-RLV8-S**



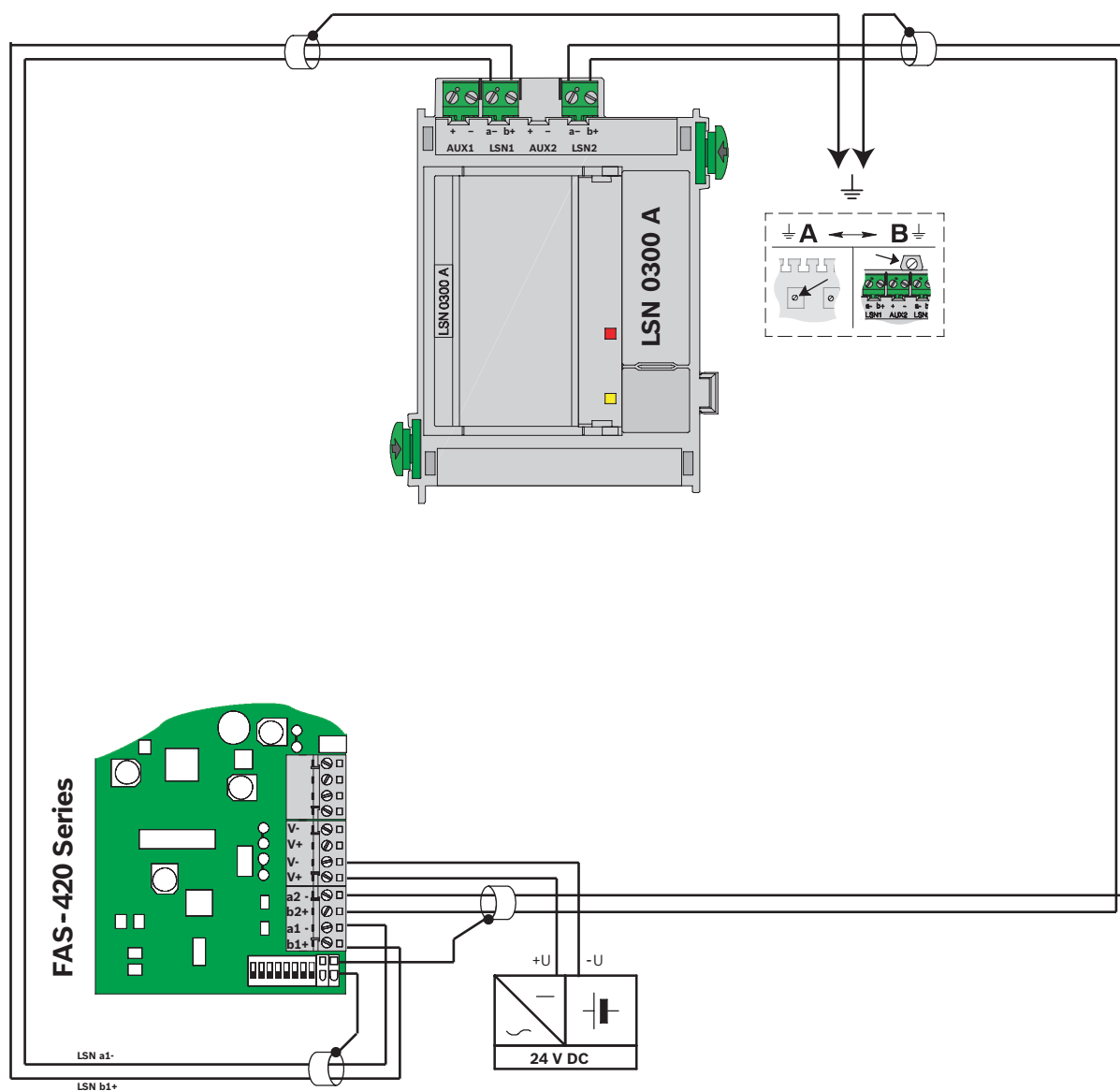
FAD-0420

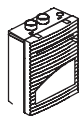
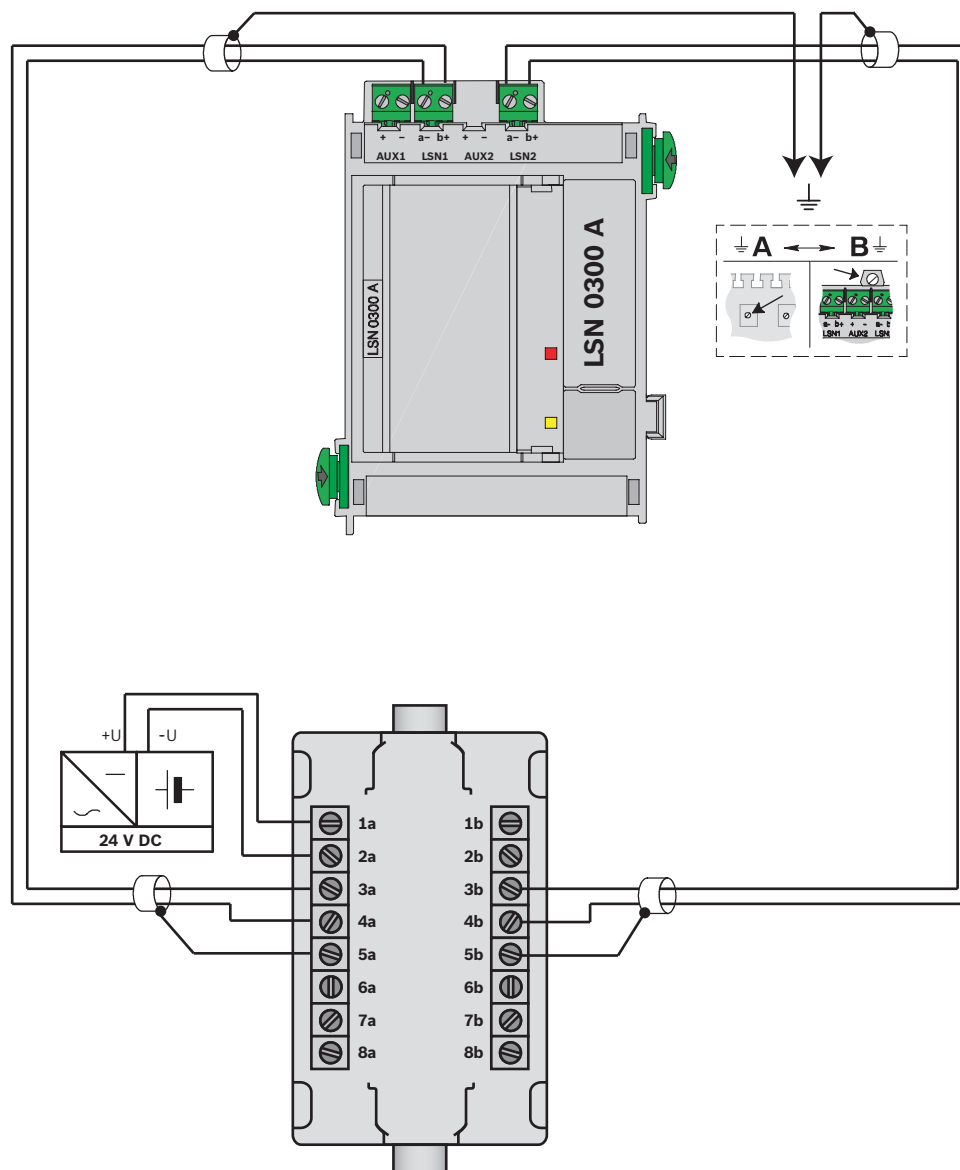


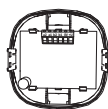
**FAD-420-HS-EN**



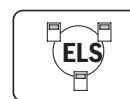
FAS-420 Series



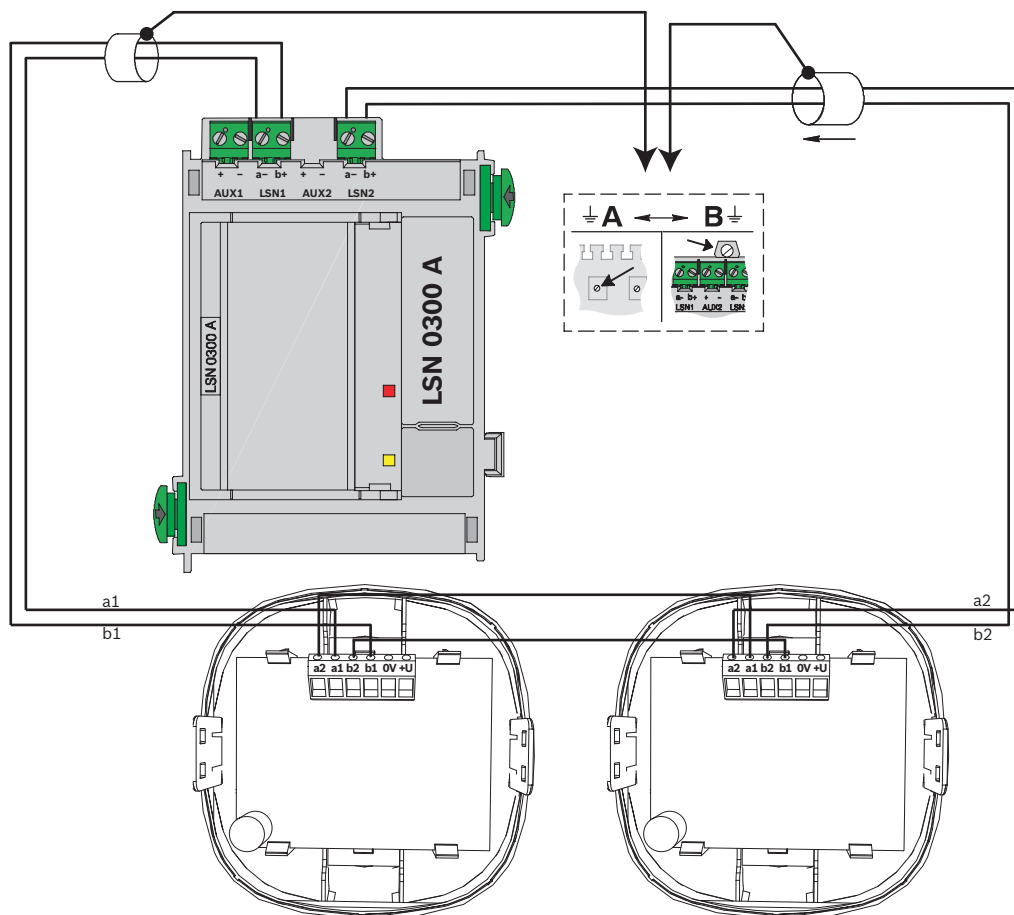
**FAS-420-TM Series**



FNM-420-A / -B
FNM-420U-A / -B
FNM-420V-A



VdS 2489

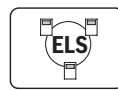


FNM-420-A/-B
FNM-420U-A/-B
FNM-420V-A

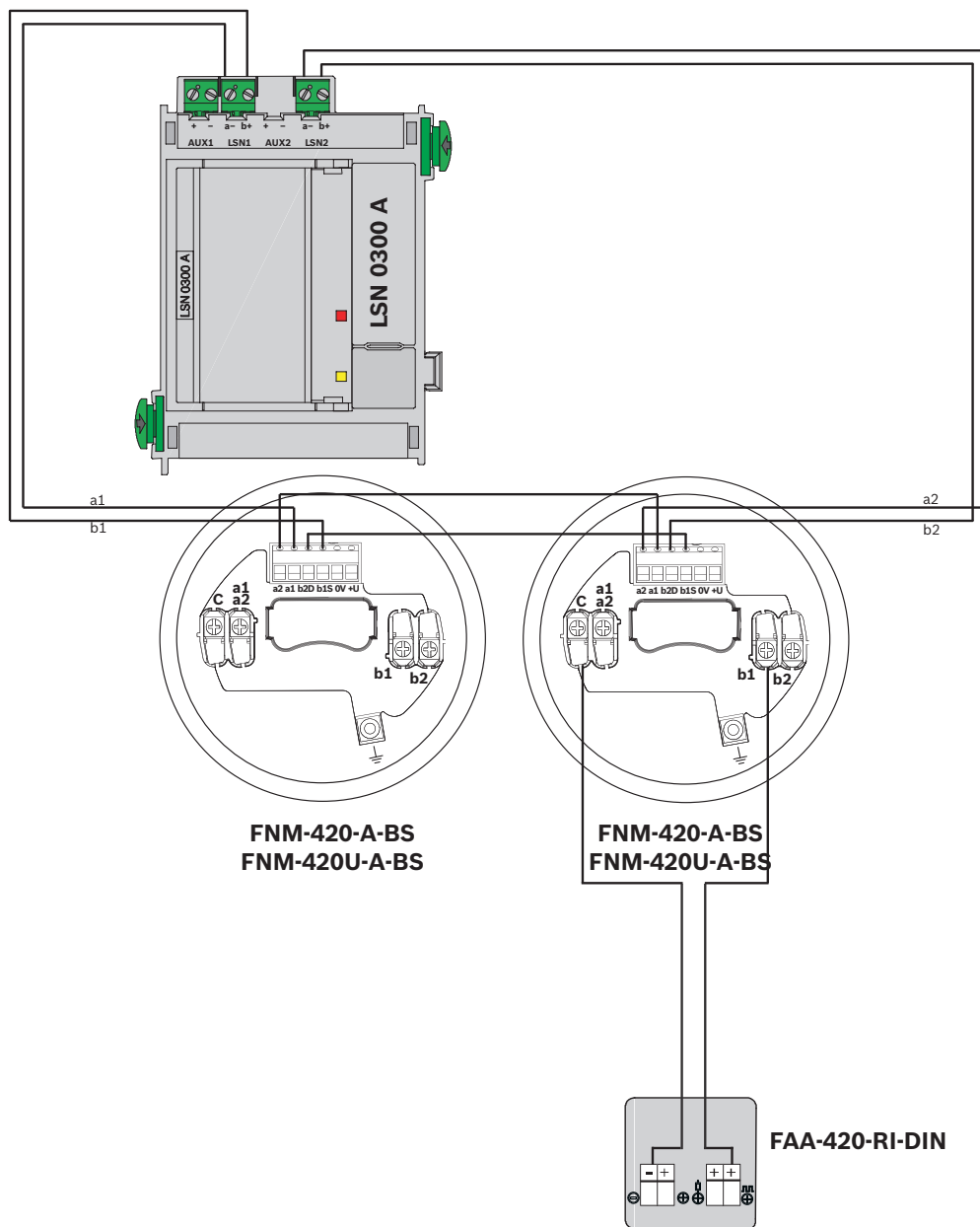
FNM-420-A/-B
FNM-420U-A/B
FNM-420V-A



FNM-420-A-BS
FNM-420U-A-BS



VdS 2489

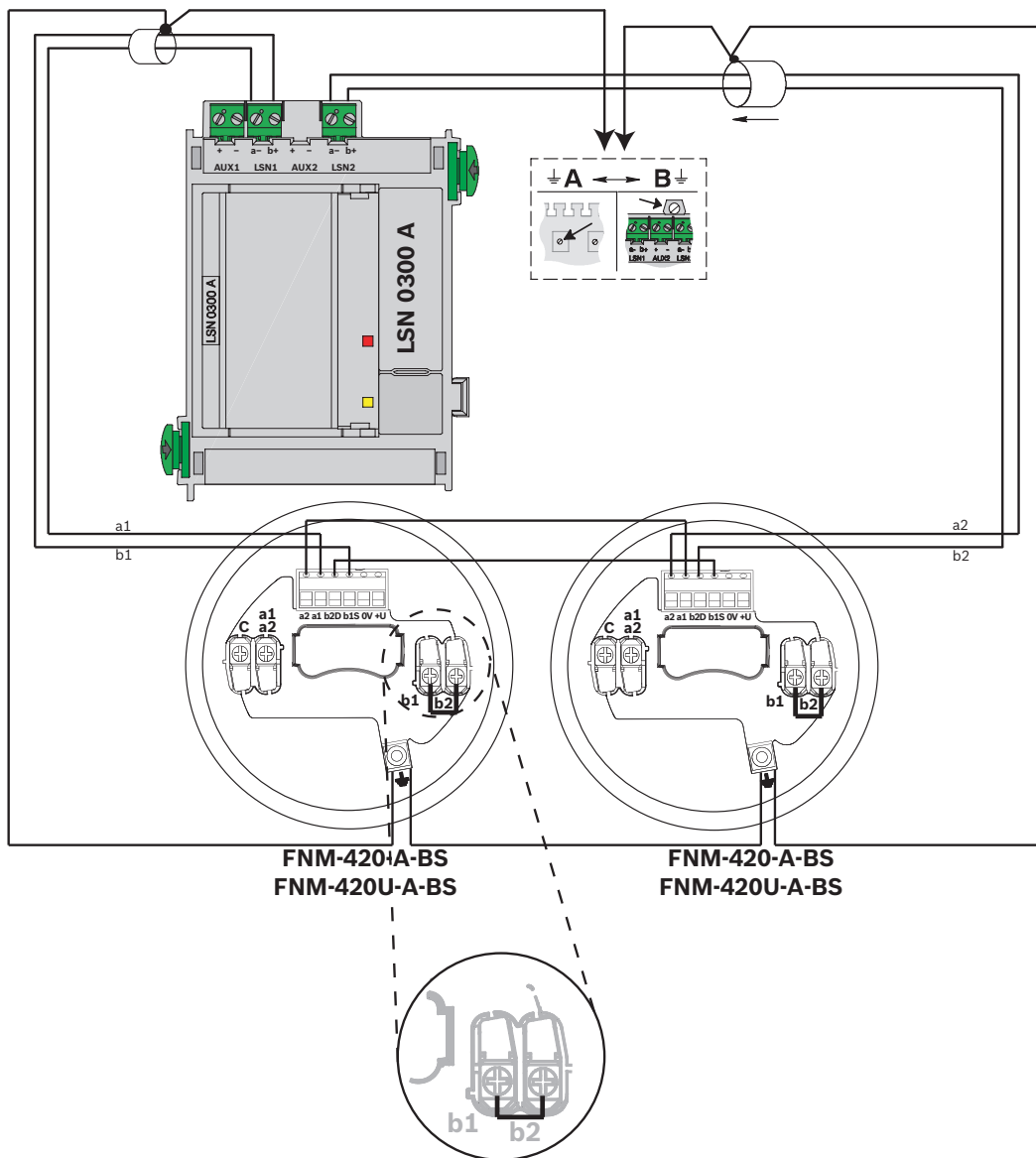


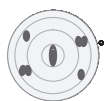


FNM-420-A-BS
FNM-420U-A-BS

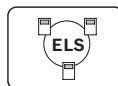


VdS 2489

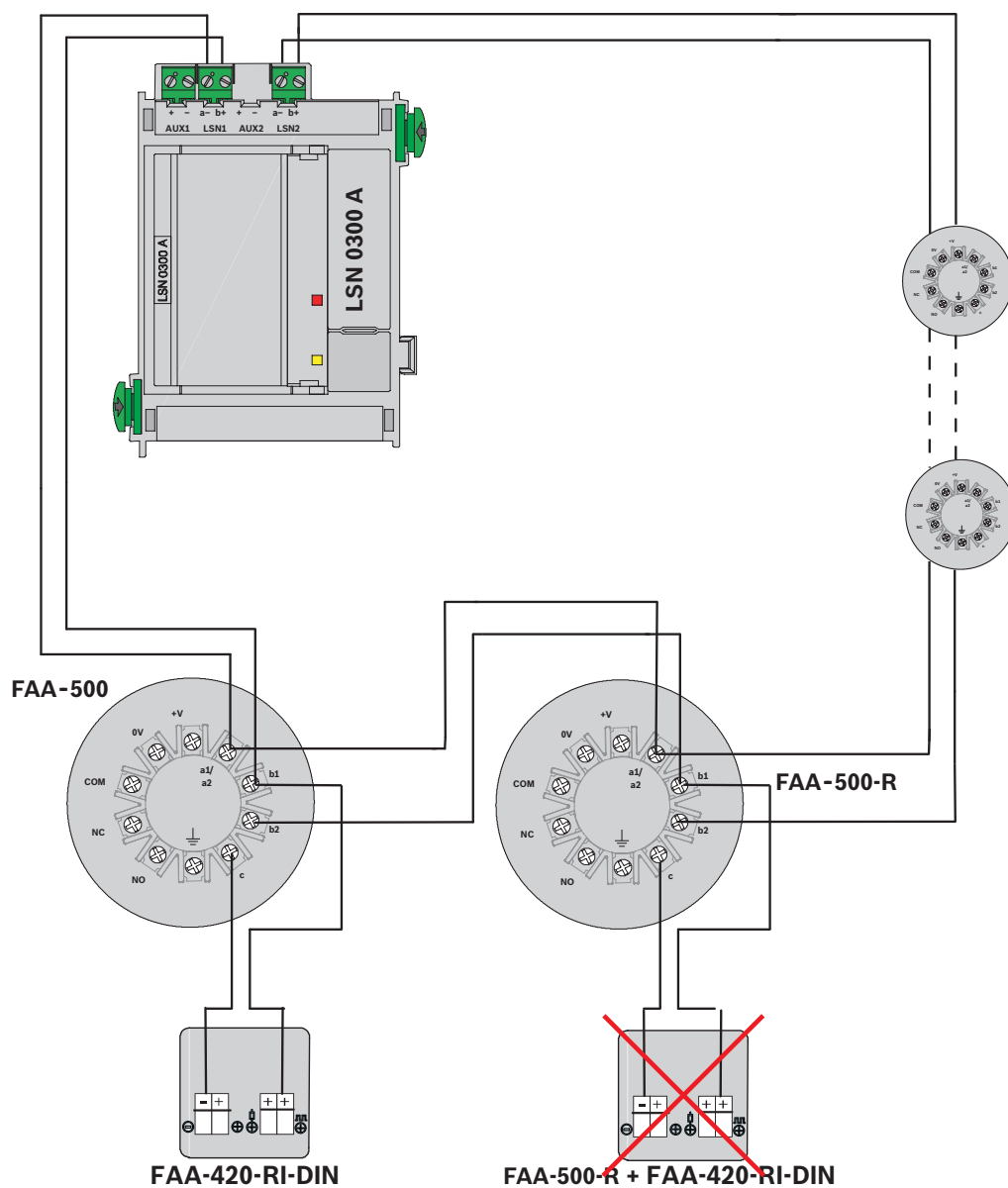




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P

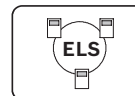


VdS 2489

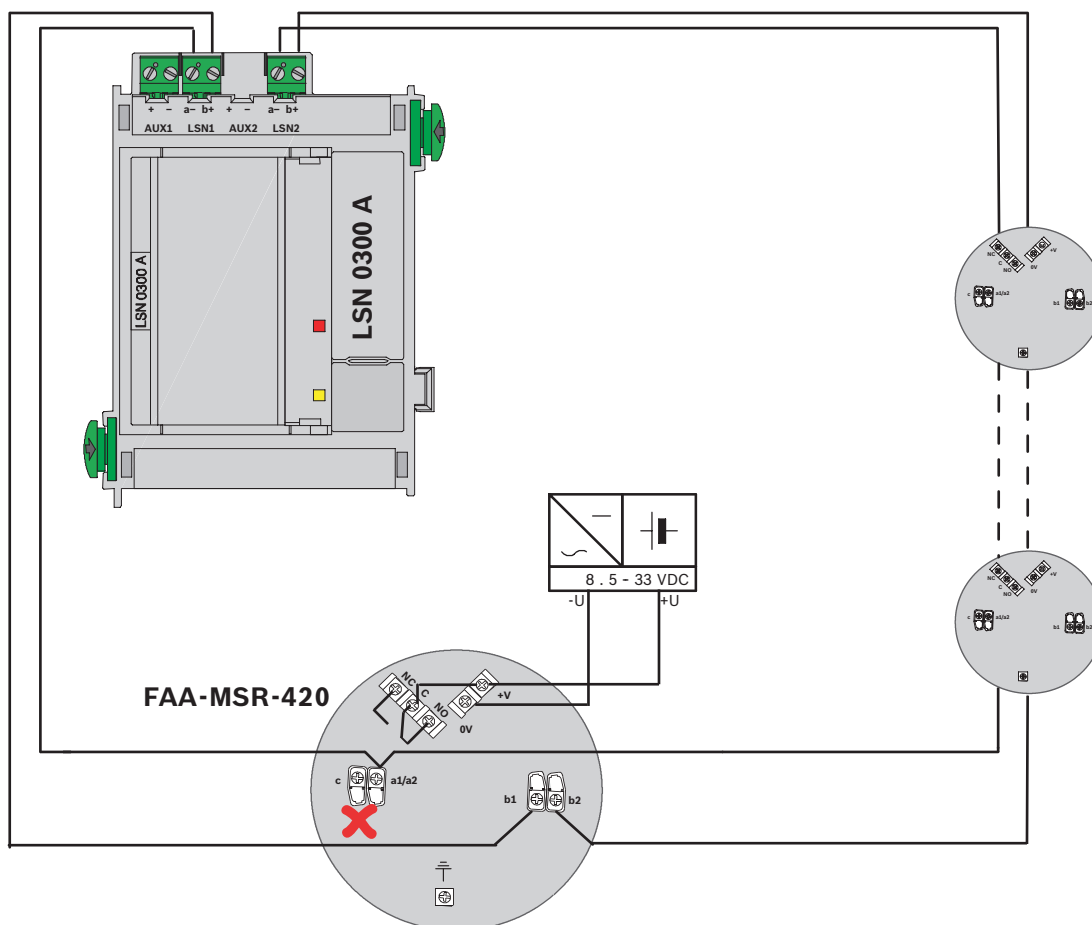




FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

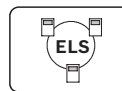


VdS 2489

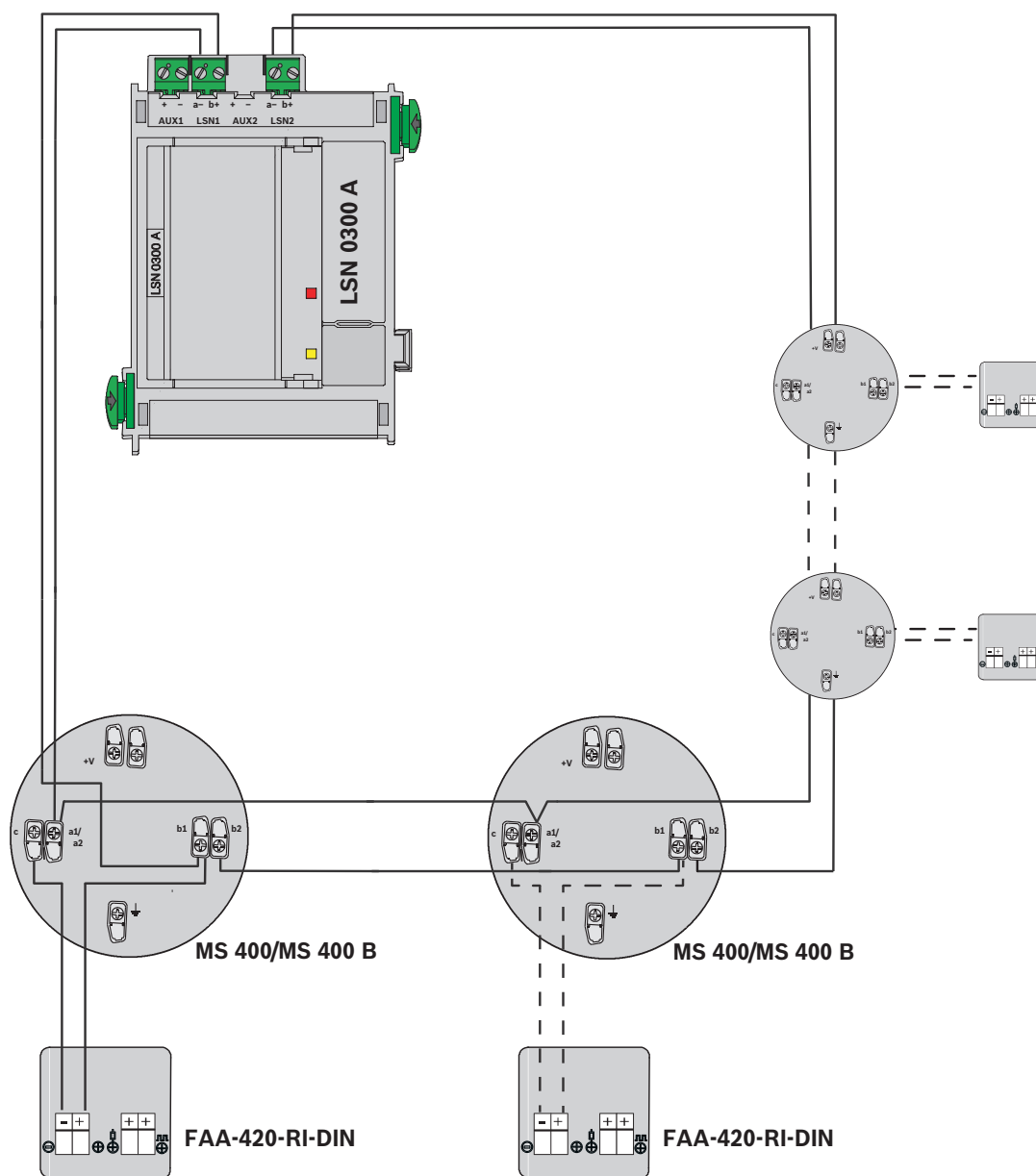


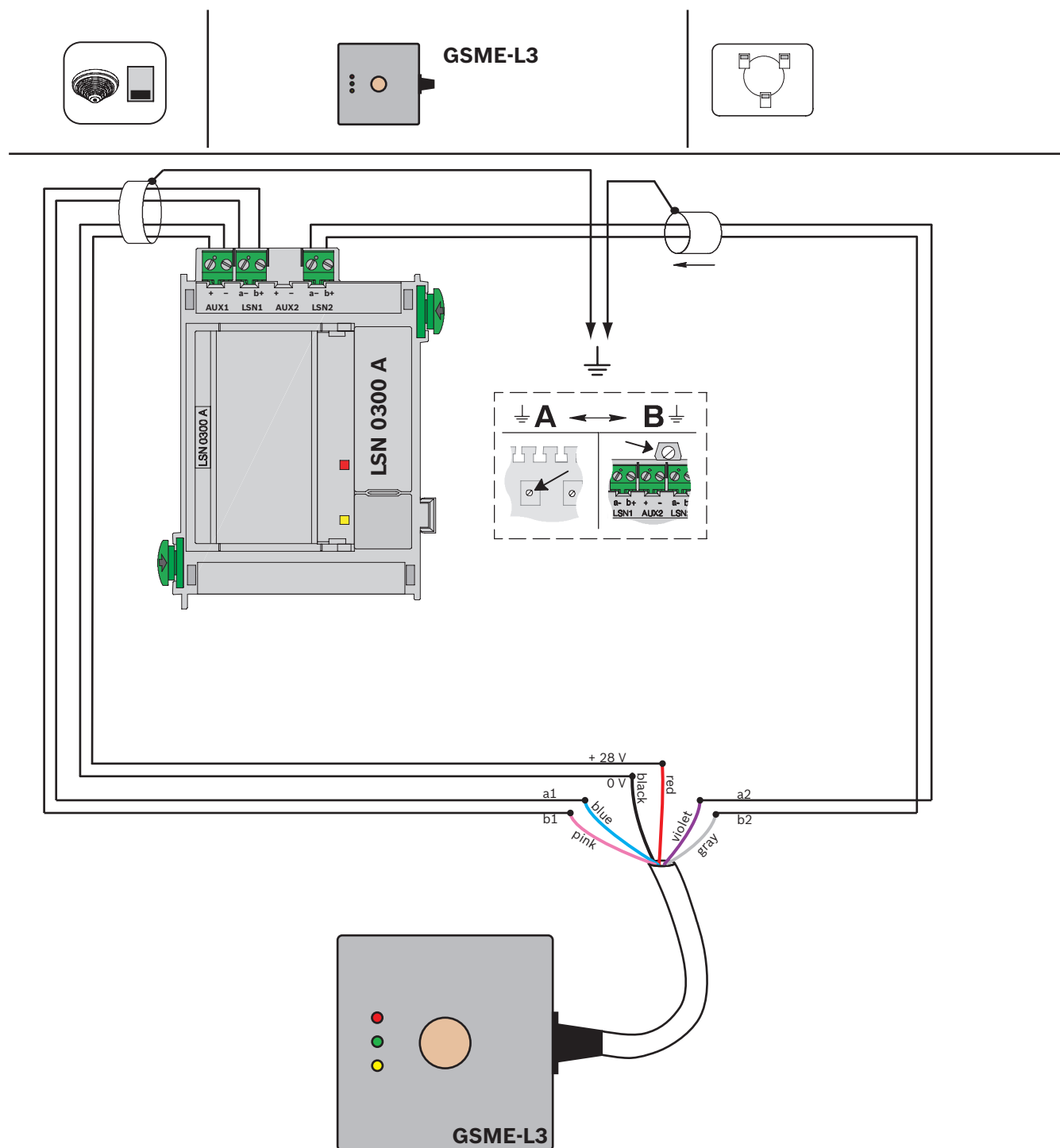


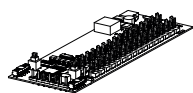
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



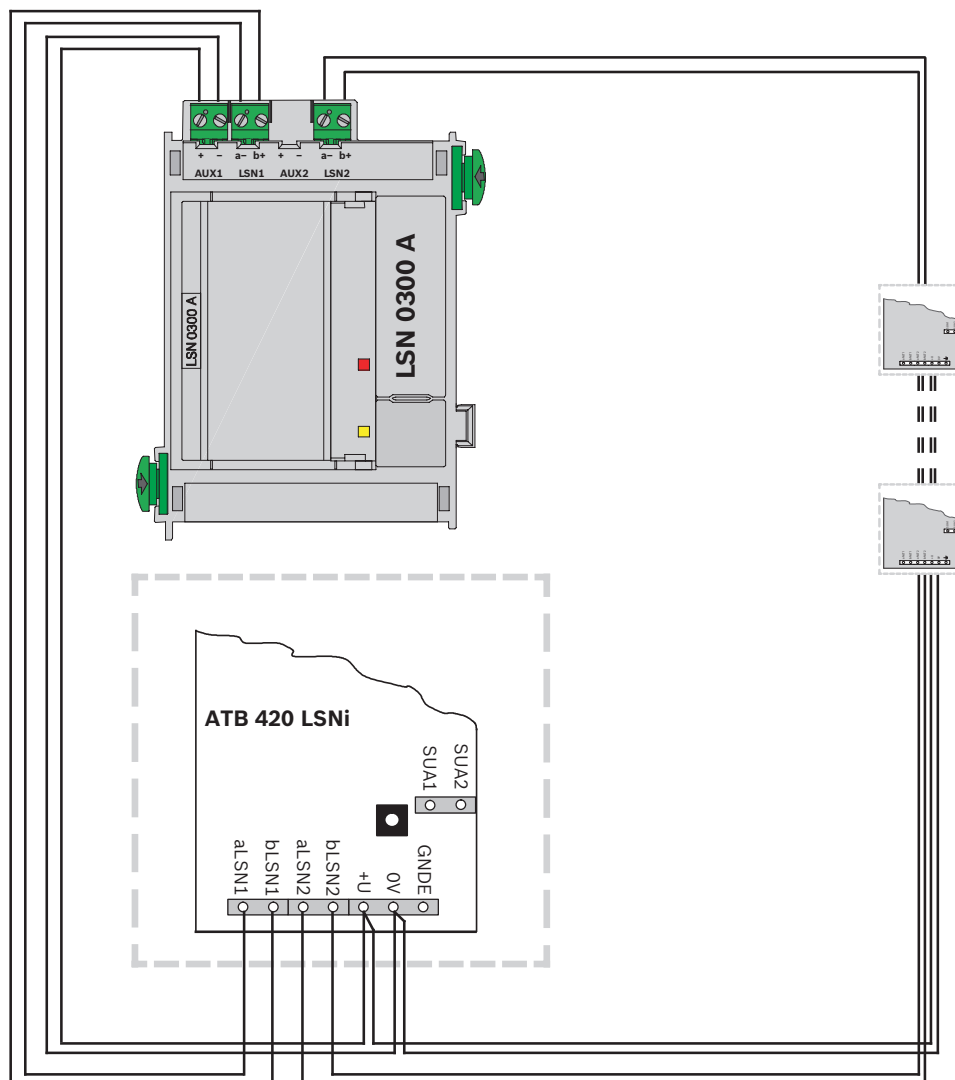
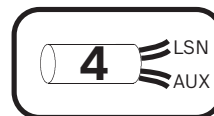
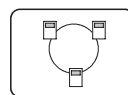
VdS 2489





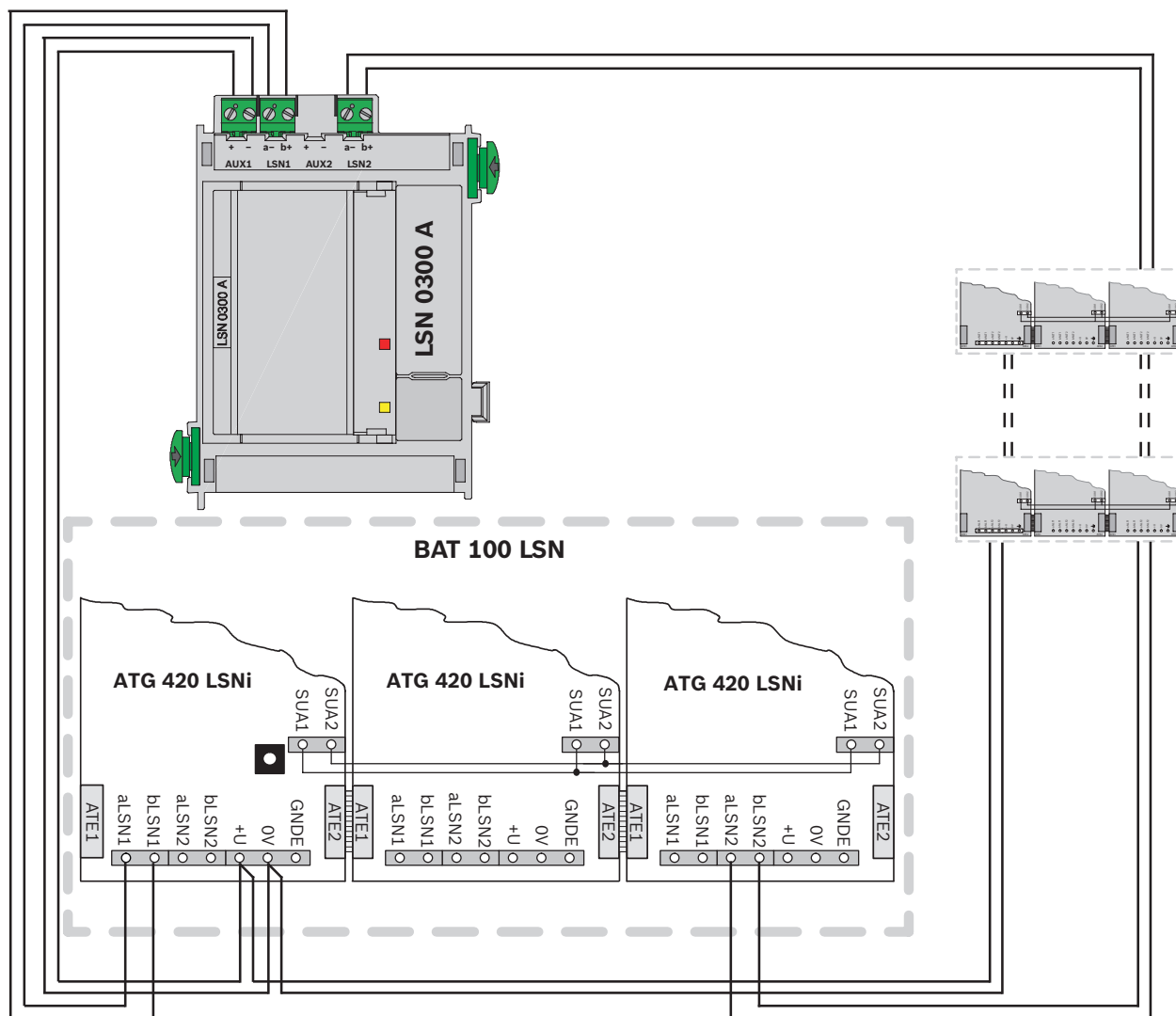
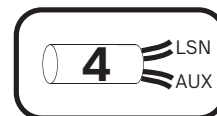
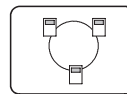


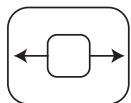
ATB 420 LSNi



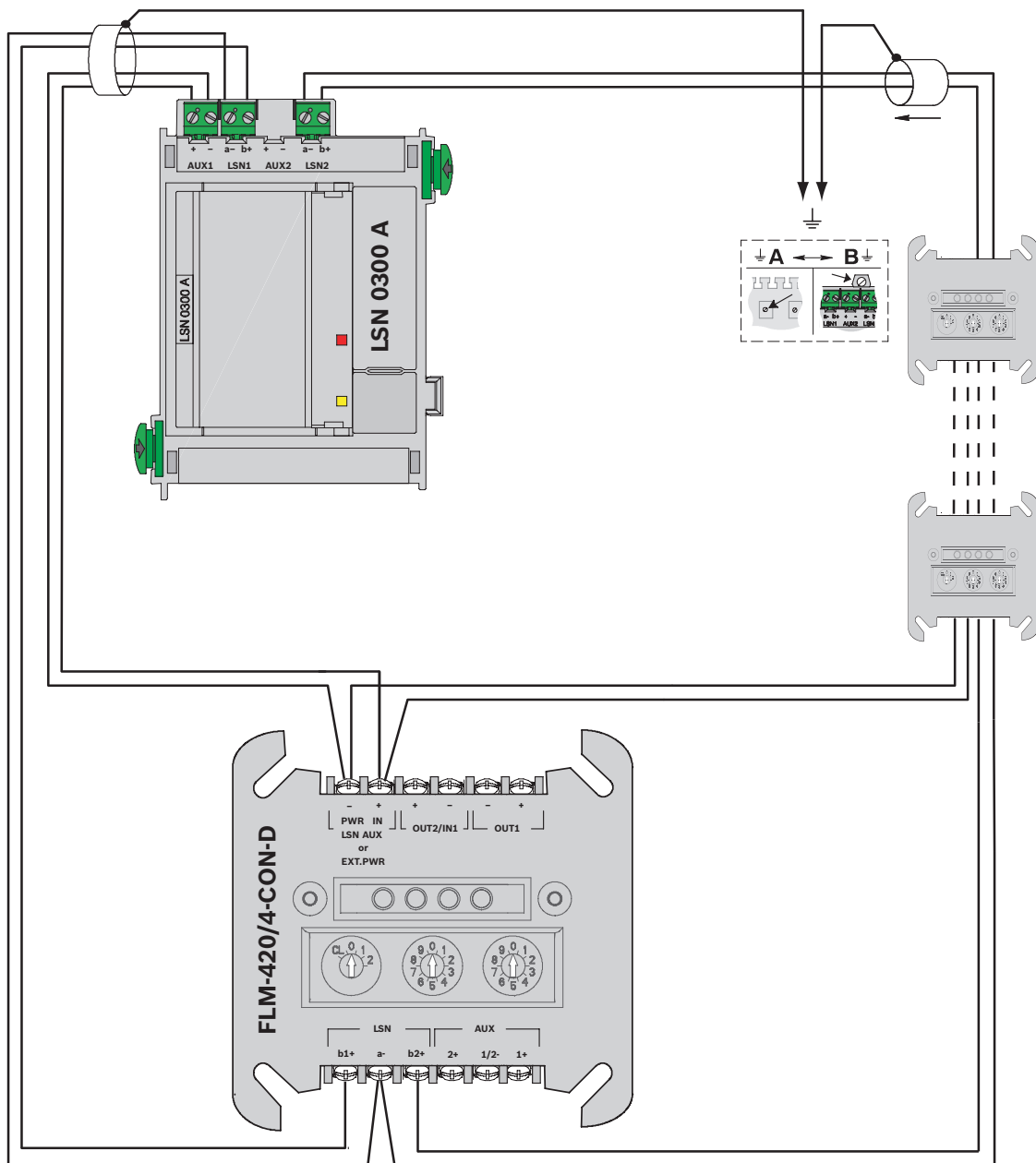
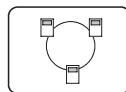


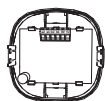
BAT 100 LSN
ATG 420 LSNi



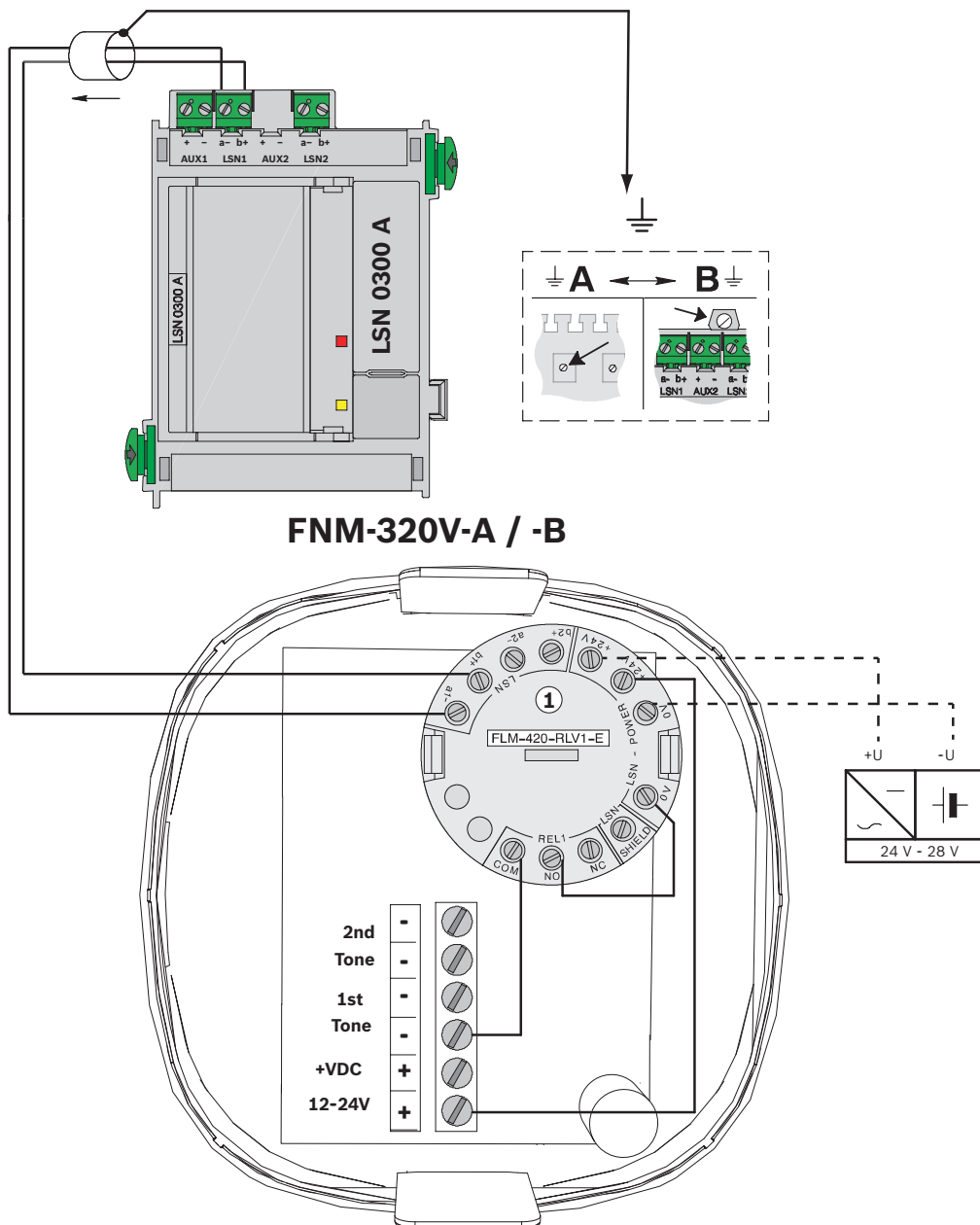
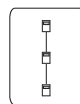


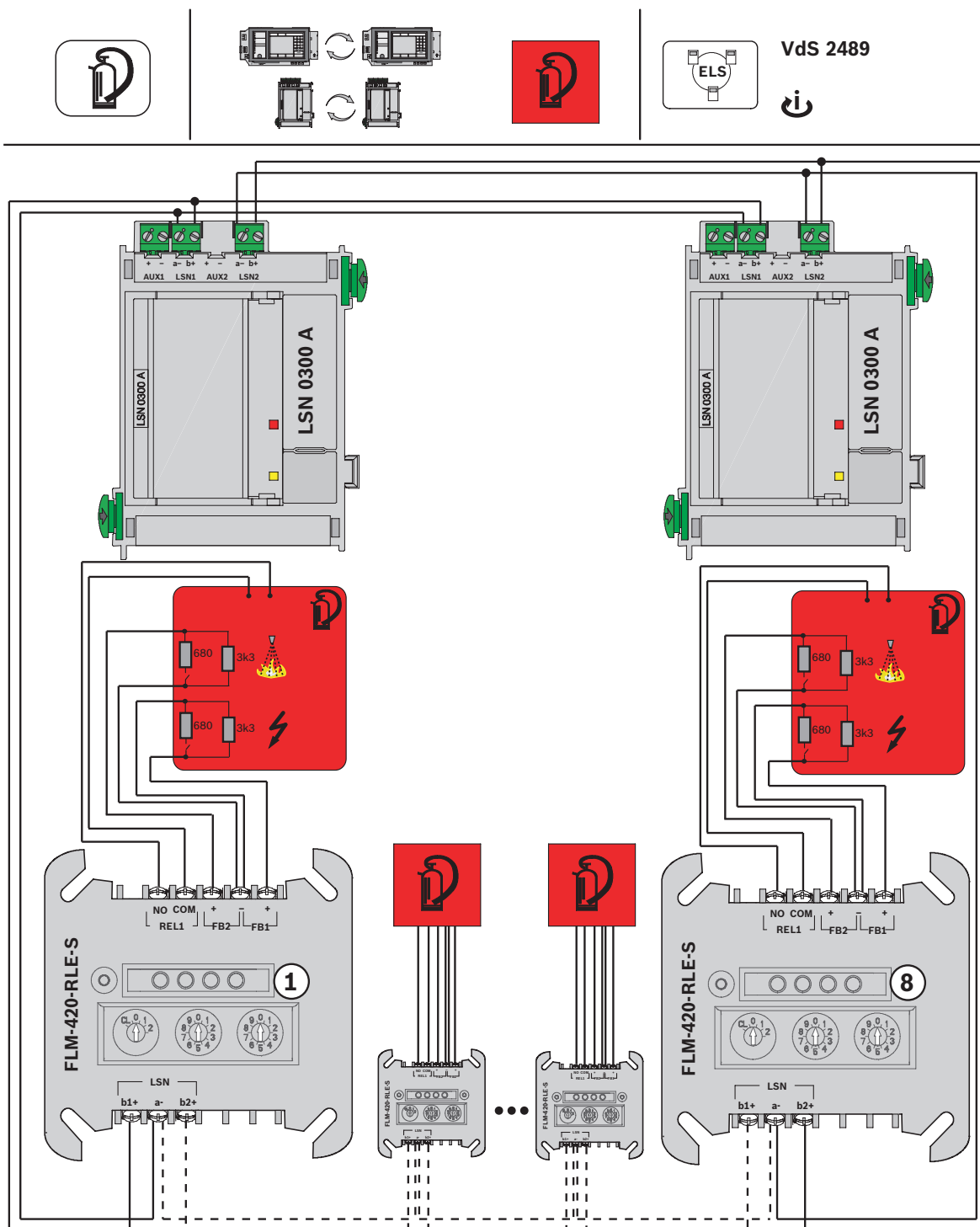
**FLM-420/
4-CON-D**

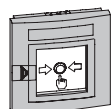
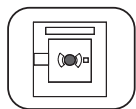




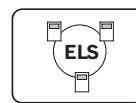
FNM-320V-A / -B



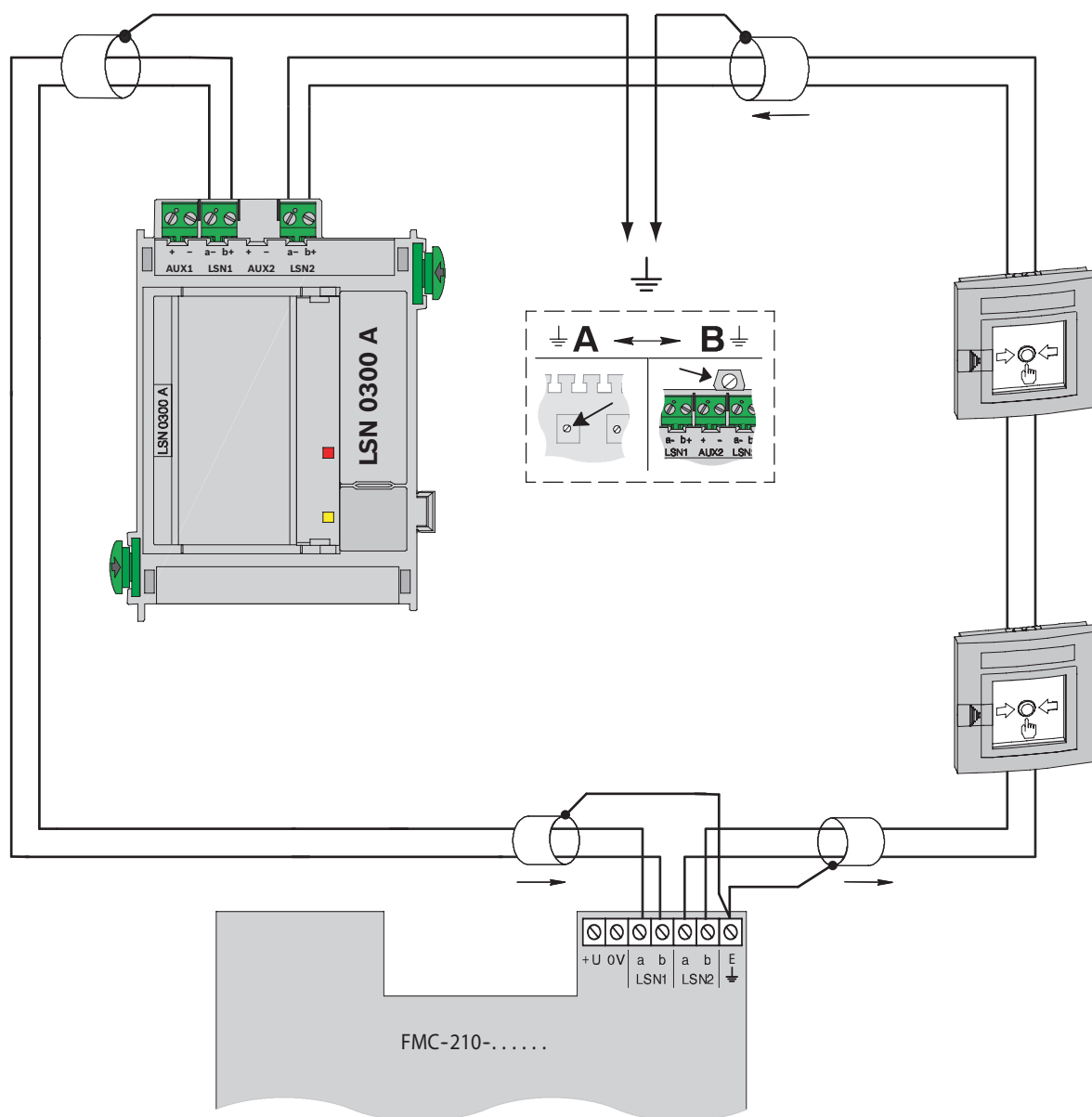


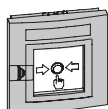
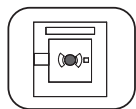


FMC-210-...

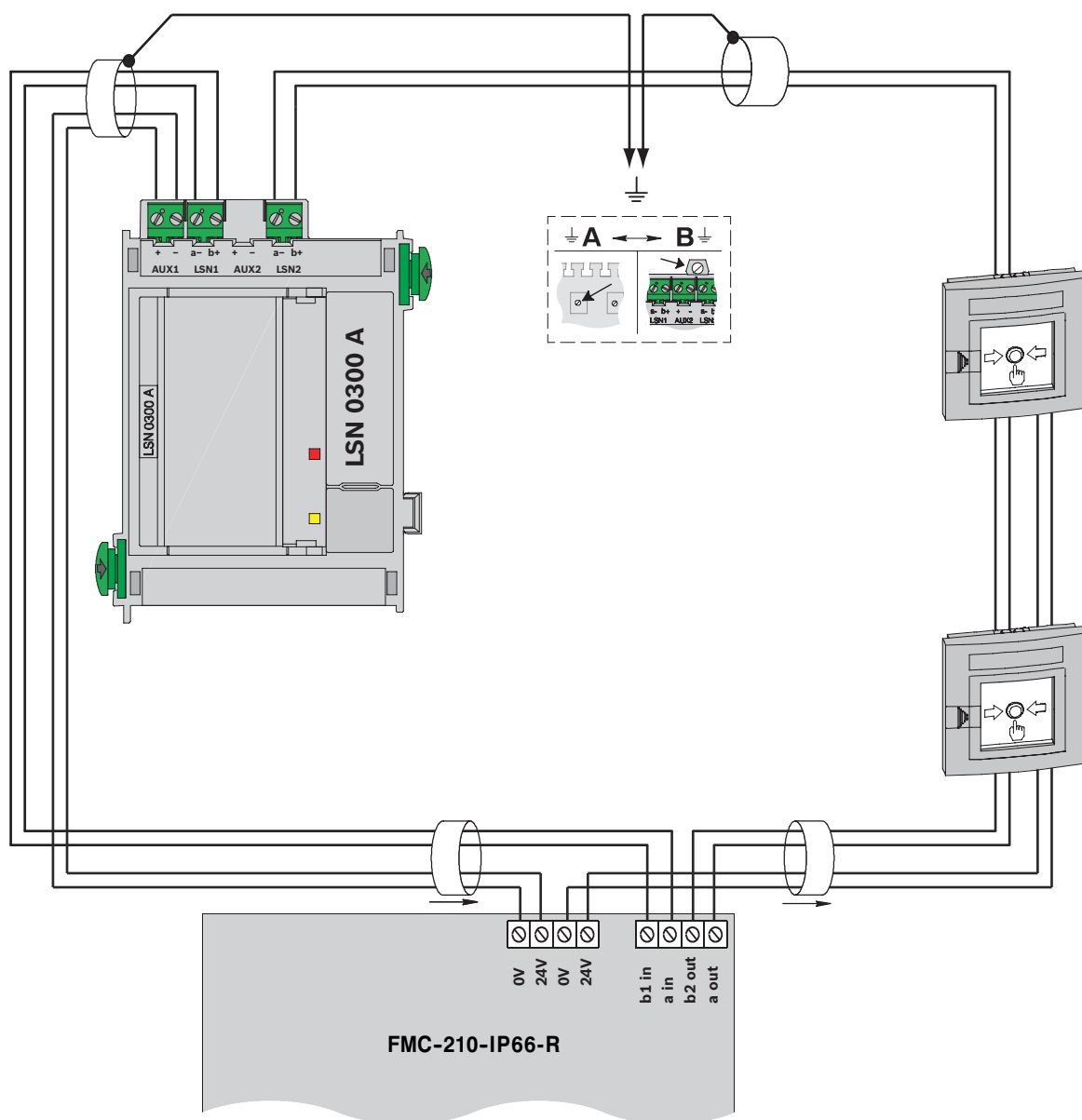
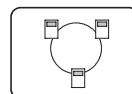


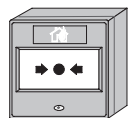
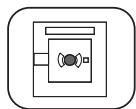
VdS 2489



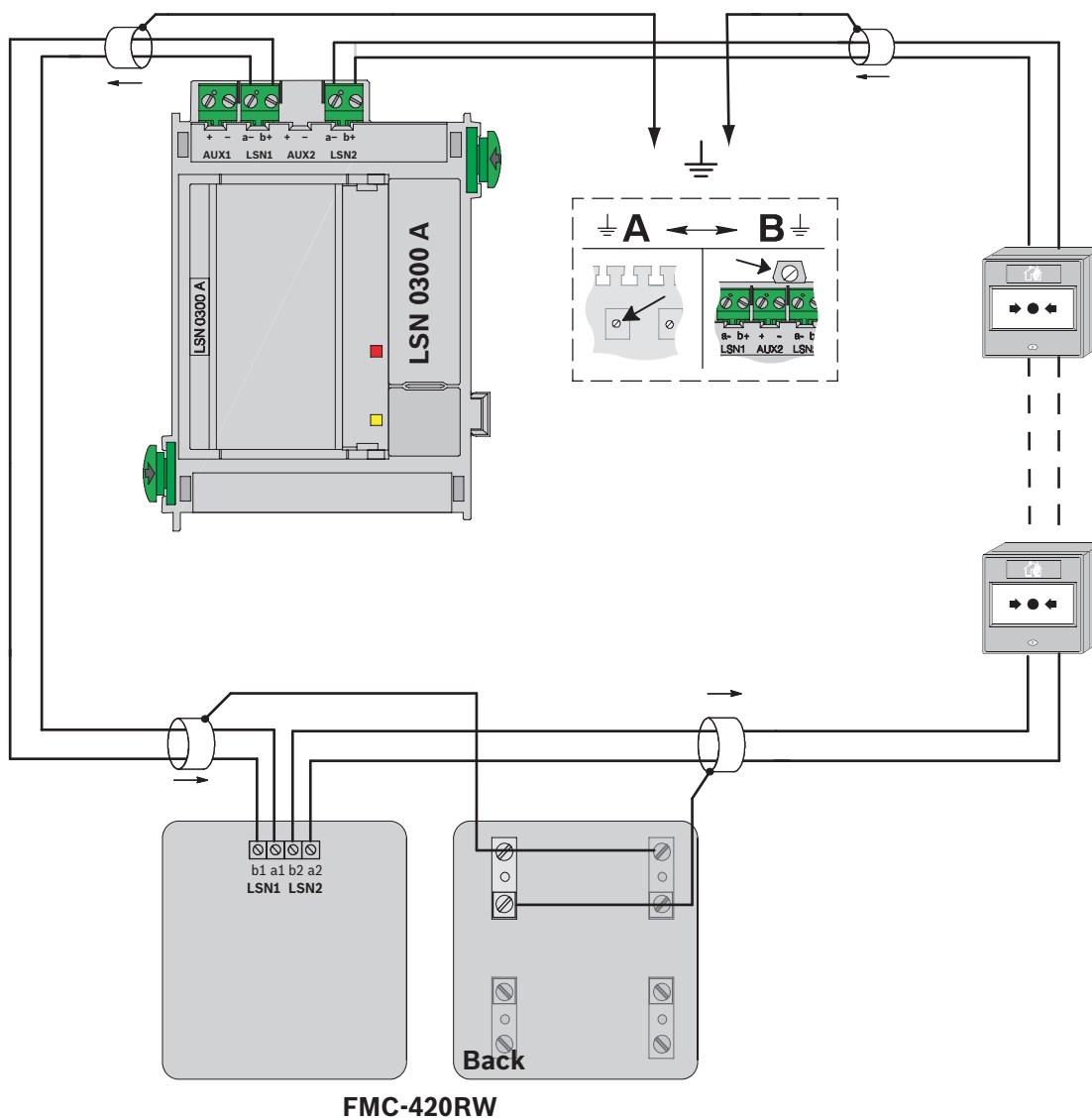
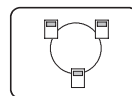


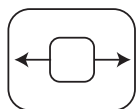
FMC-210-IP66-R



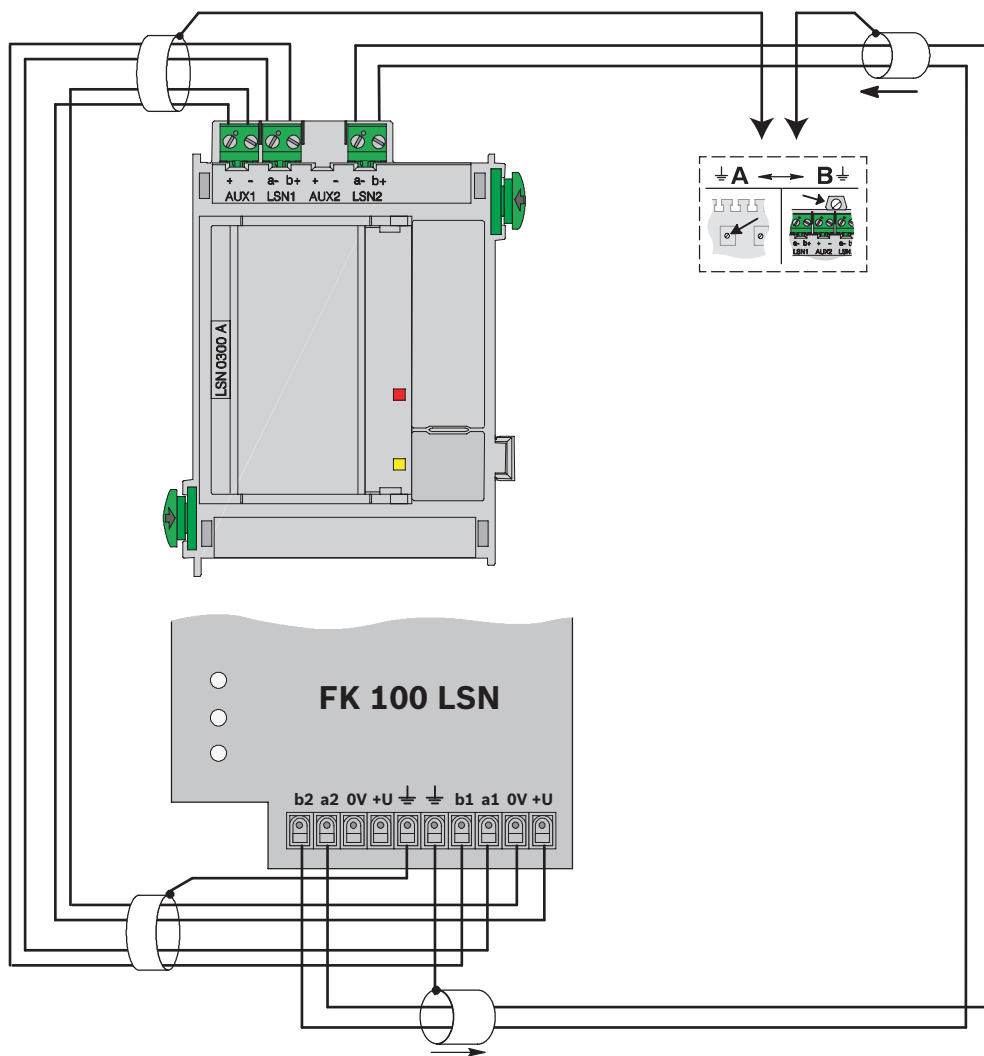
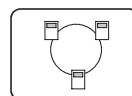


FMC-420RW-HSGRD
FMC-420RW-HSRRD
FMC-420RW-GFGRD
FMC-420RW-GFRRD
FMC-420RW-GSGRD
FMC-420RW-GSRRD

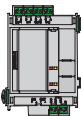
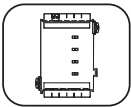




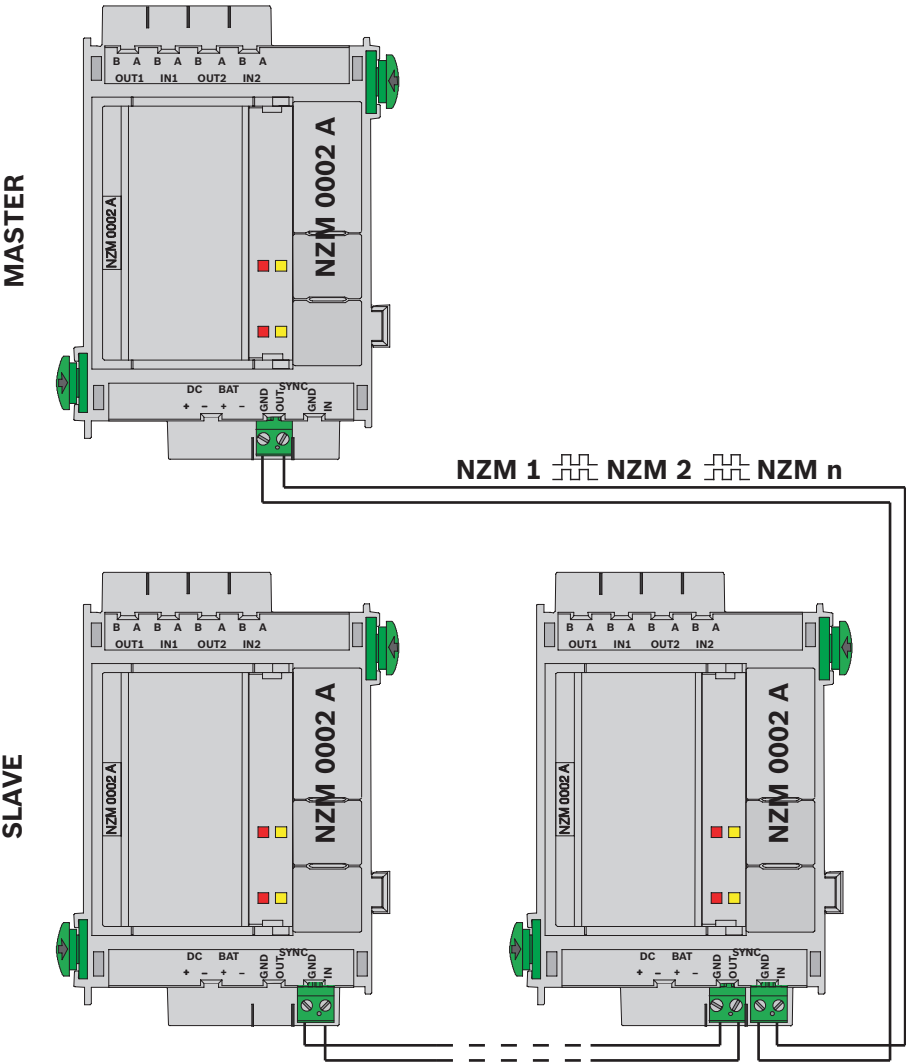
FK 100 LSN

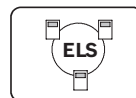
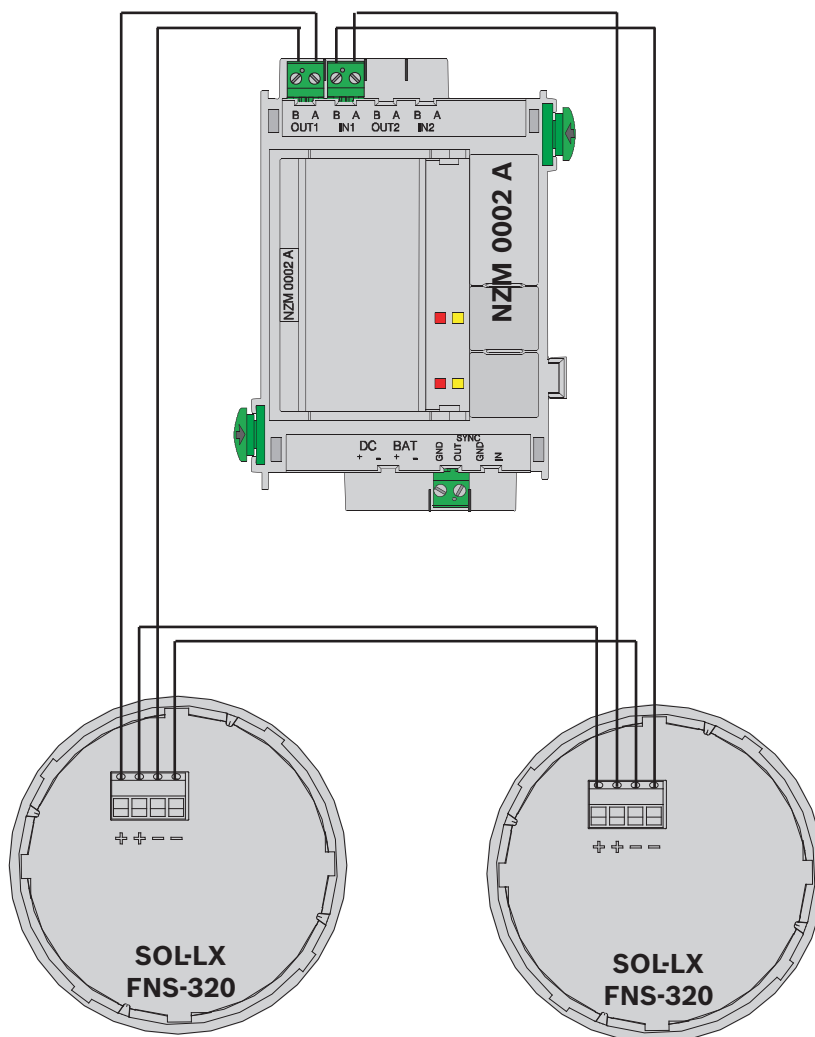


3.3.5 NZM 0002 A



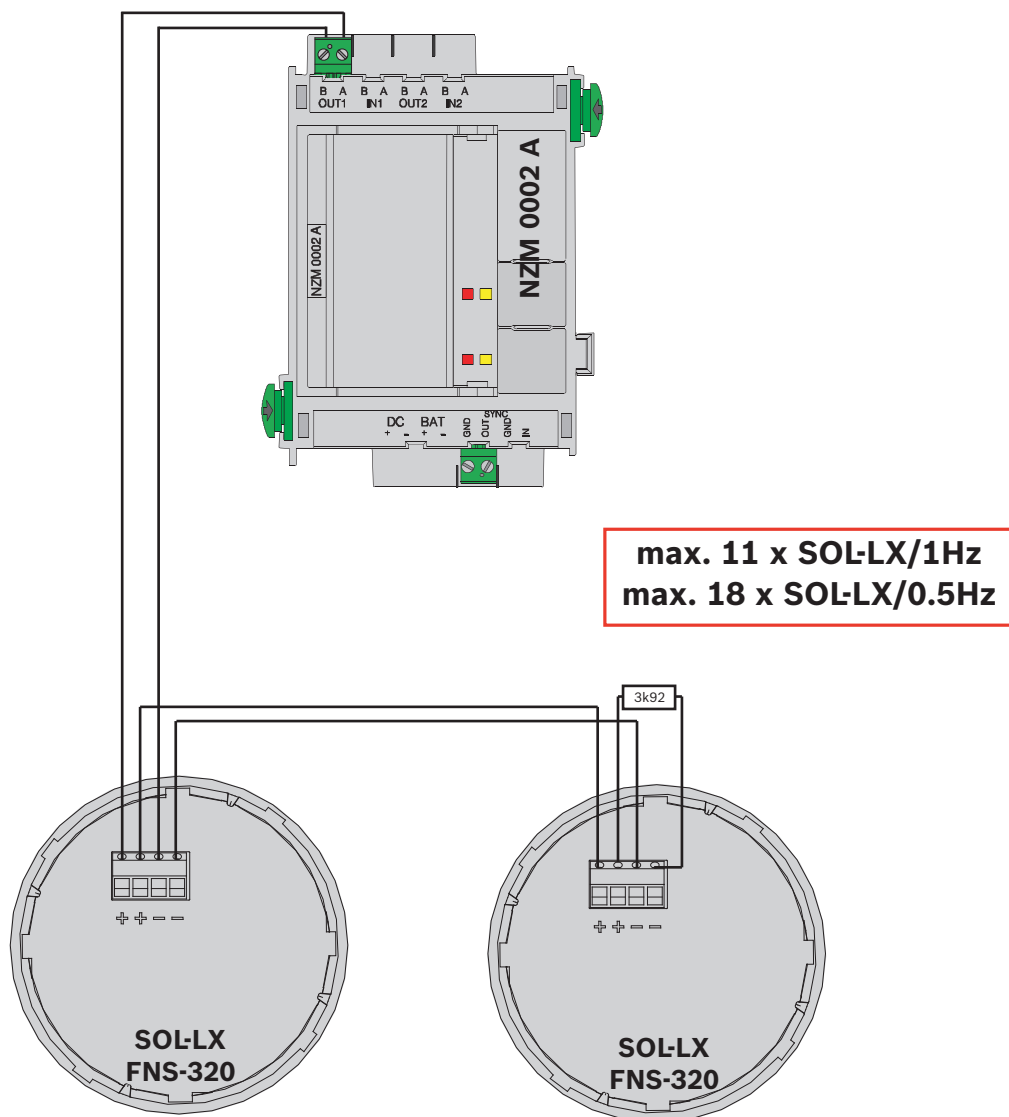
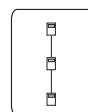
NZM 0002 A

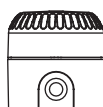


**SOL-LX
FNS-320****VdS 2489**

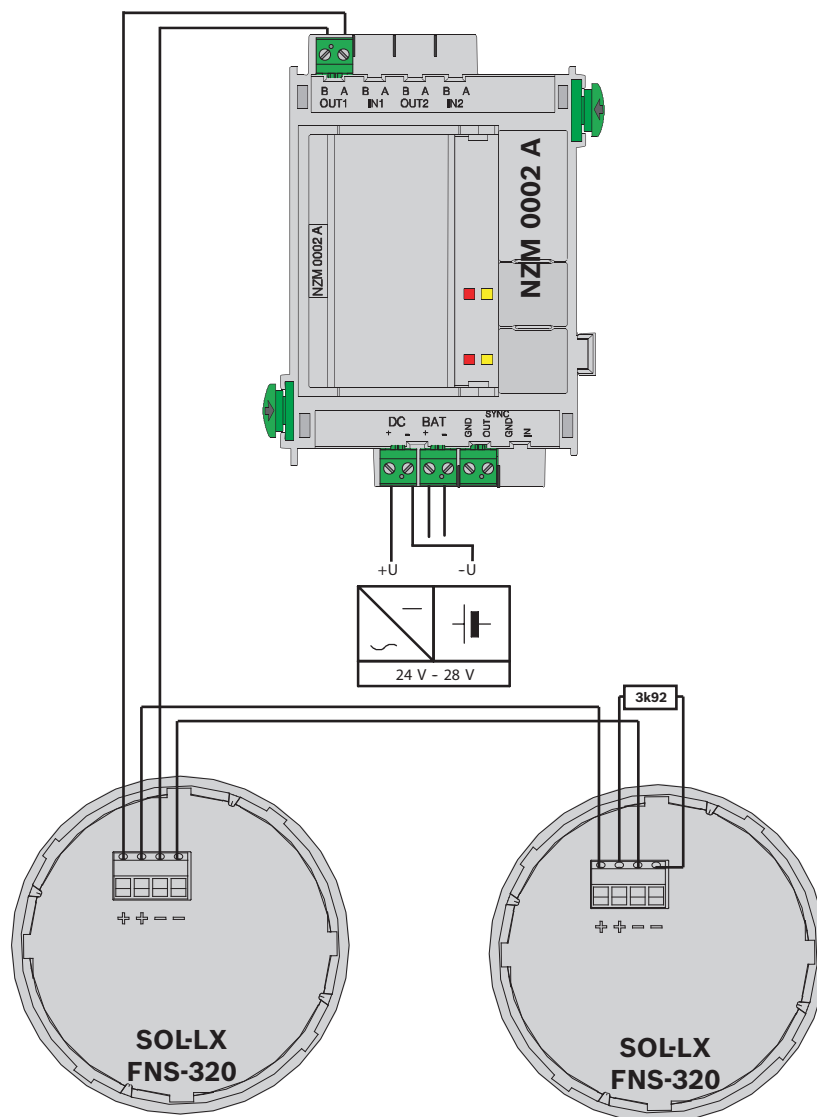
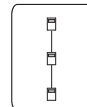


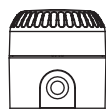
**SOL-LX
FNS-320**



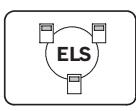


**SOL-LX
FNS-320**

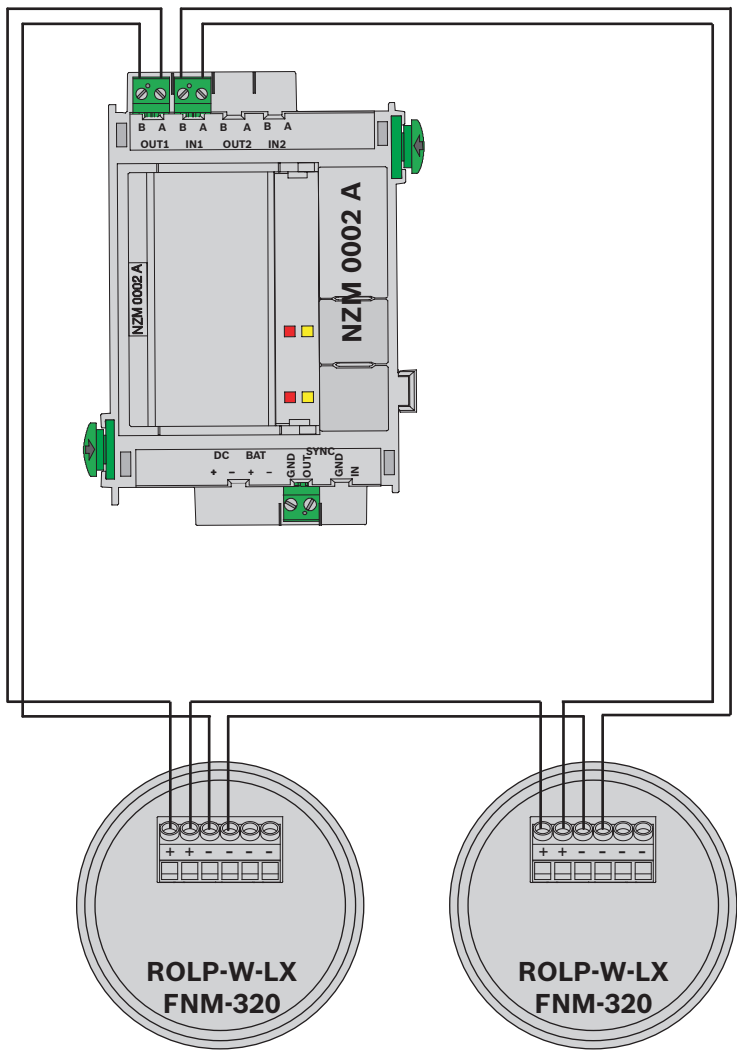




**ROLP-W-LX
FNM-320**

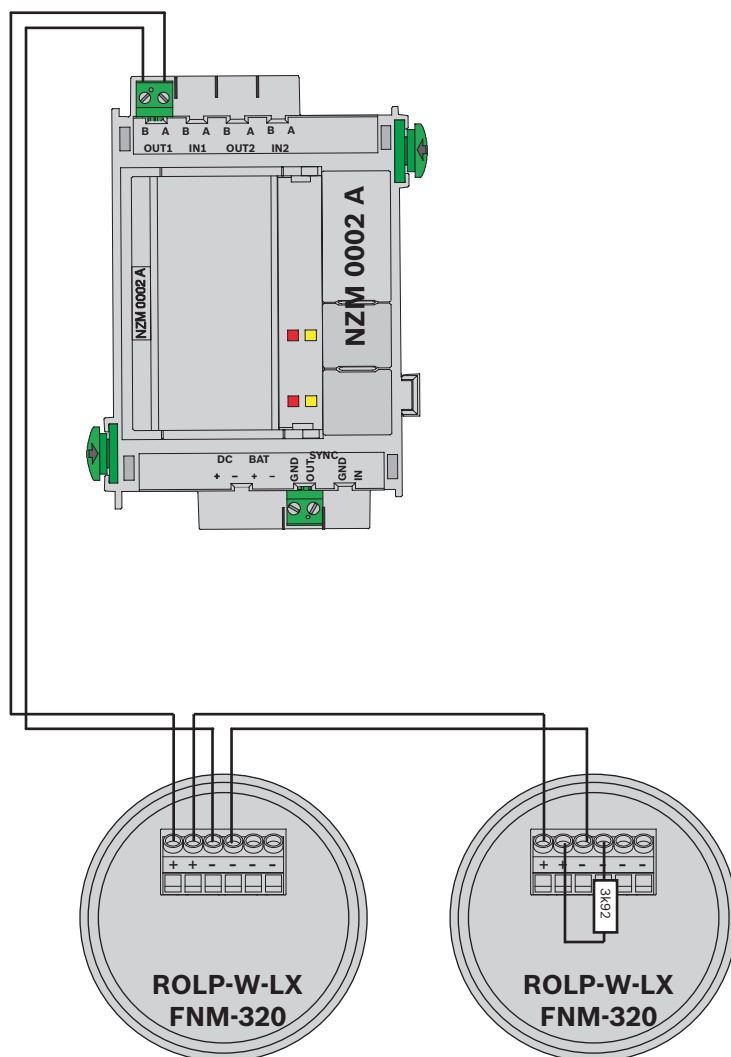
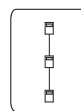


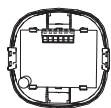
VdS 2489



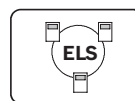


**ROLP-W-LX
FNM-320**

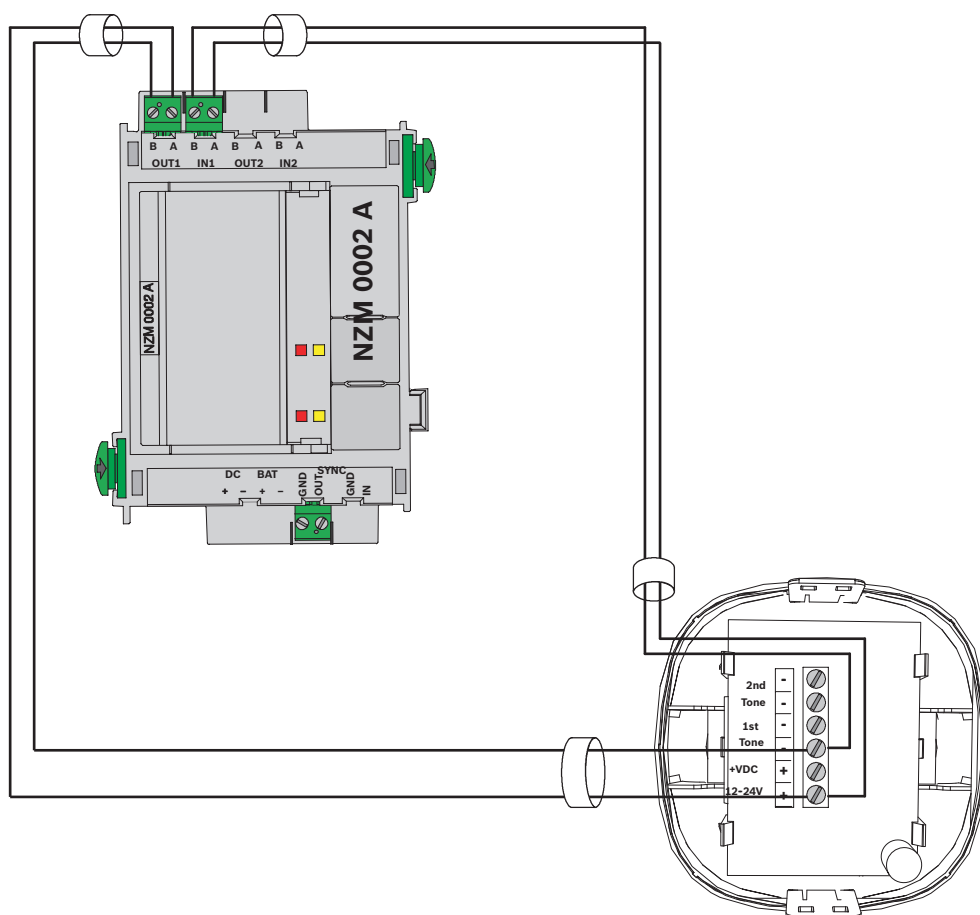


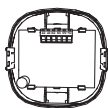
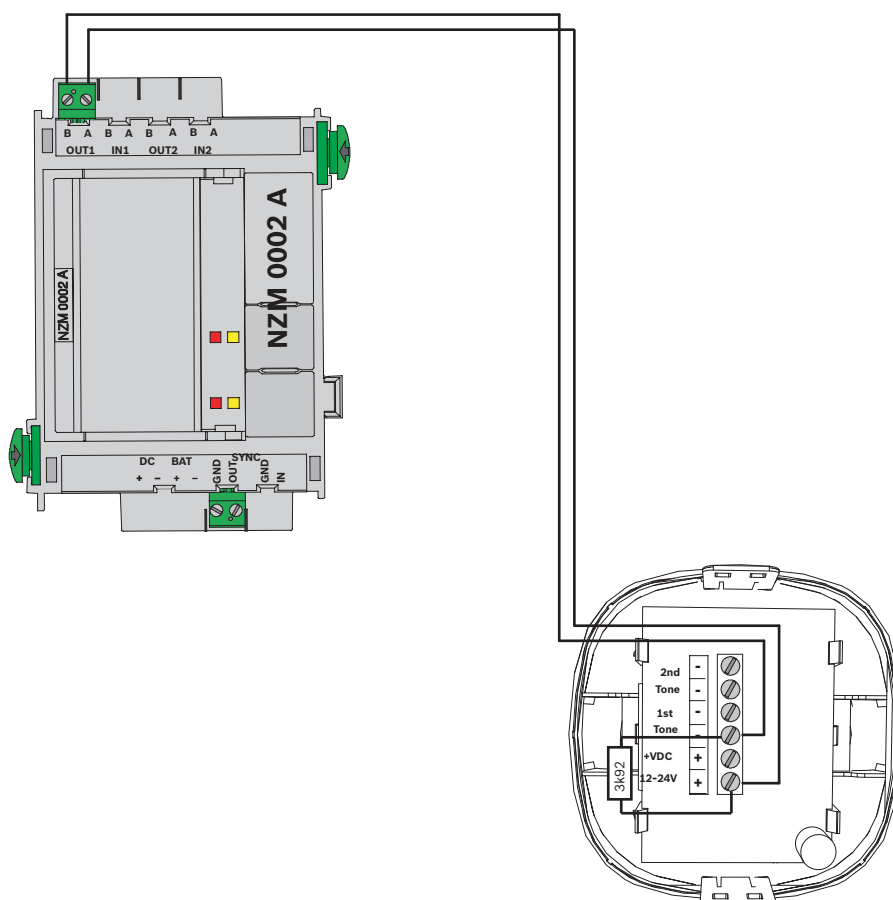
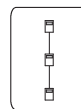


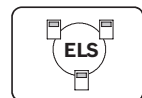
FNM-320V-A / -B



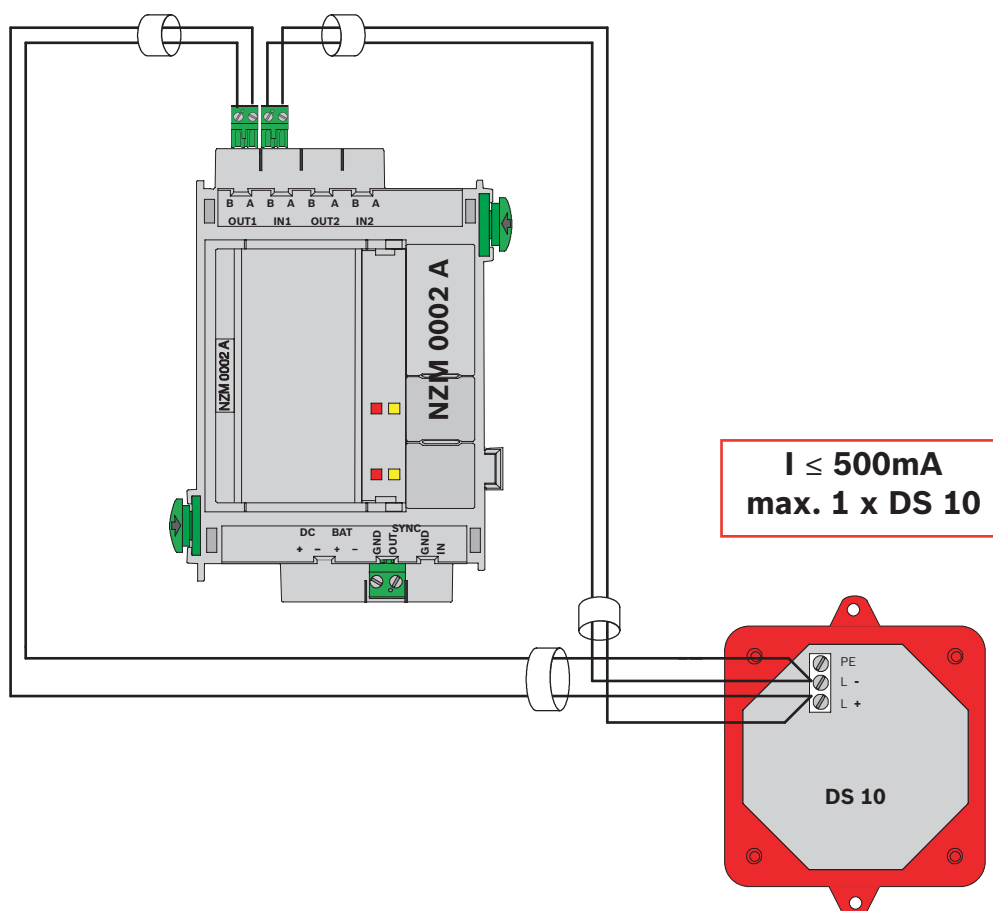
VdS 2489

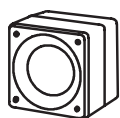


**FNM-320V-A / -B**

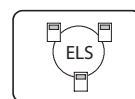


VdS 2489

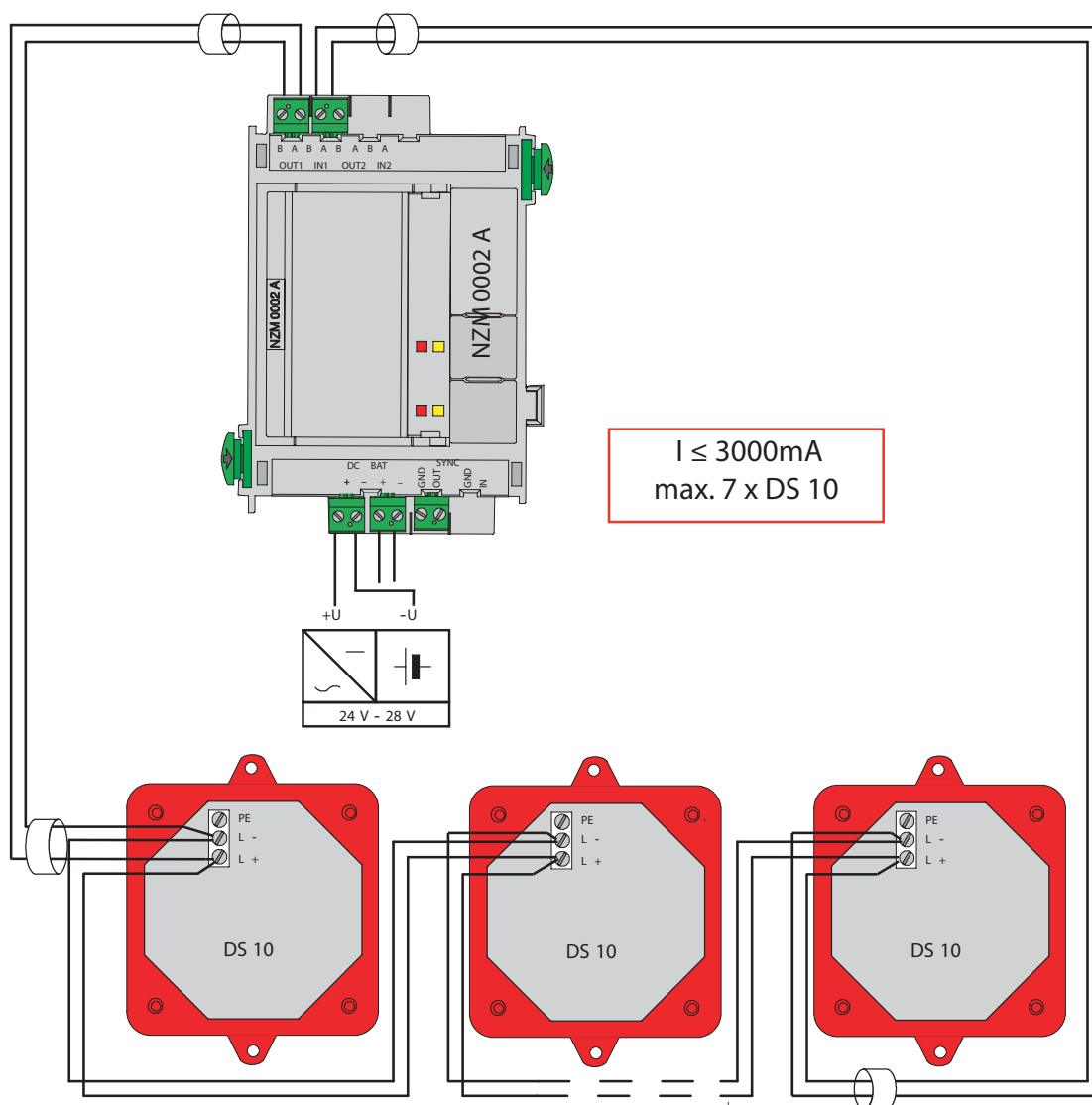


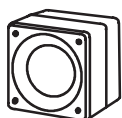


DS 10

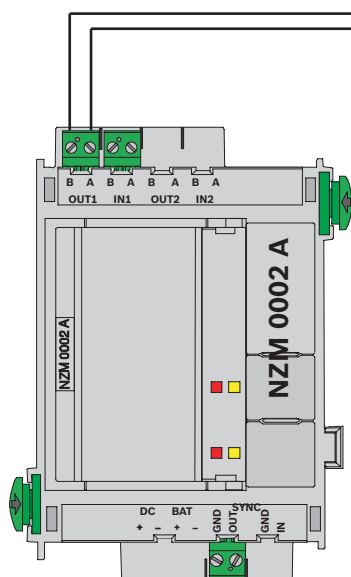
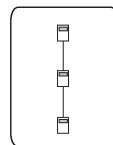


VdS 2489

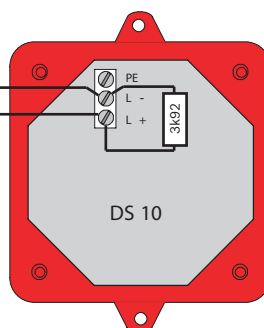


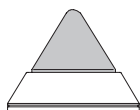
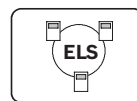
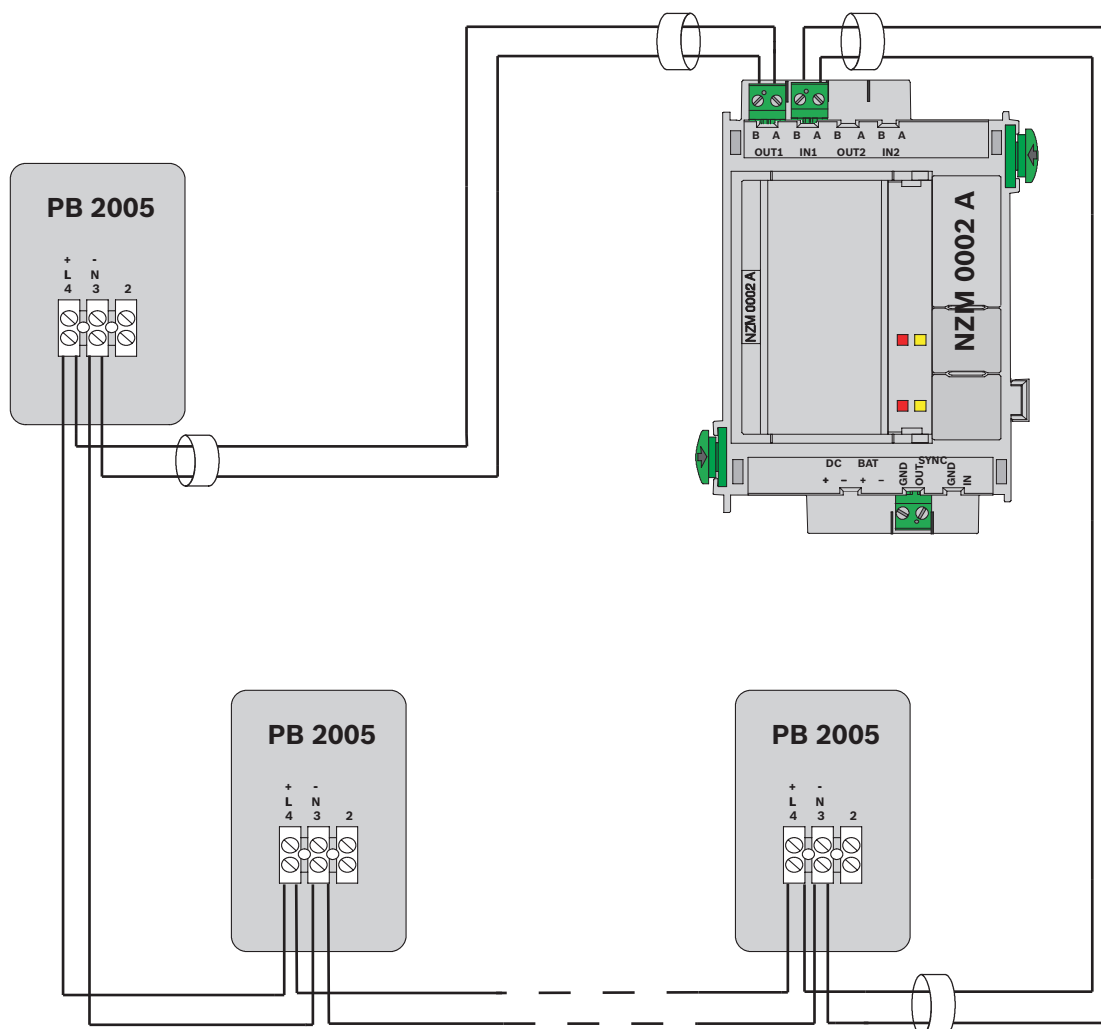


DS 10



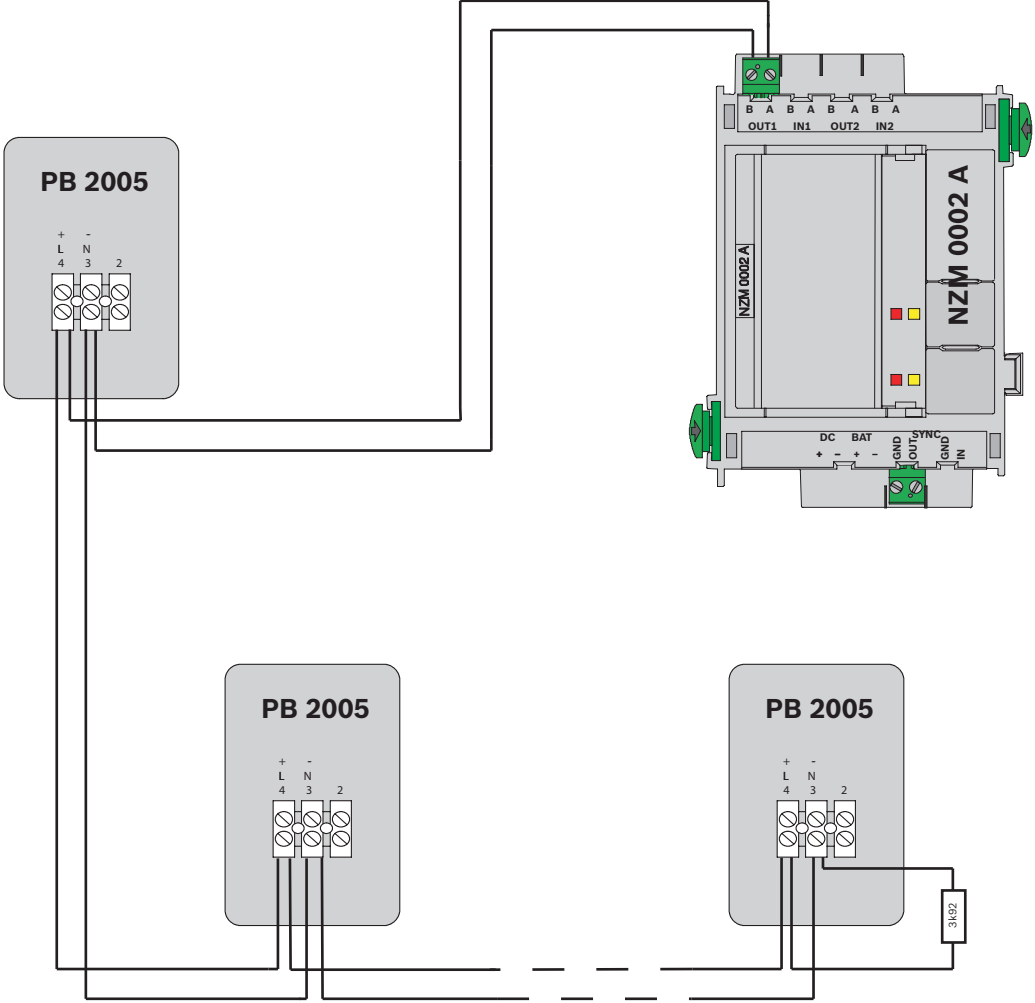
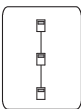
I ≤ 500mA
max. 1 x DS 10

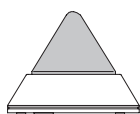


**PB 2005****VdS 2489**

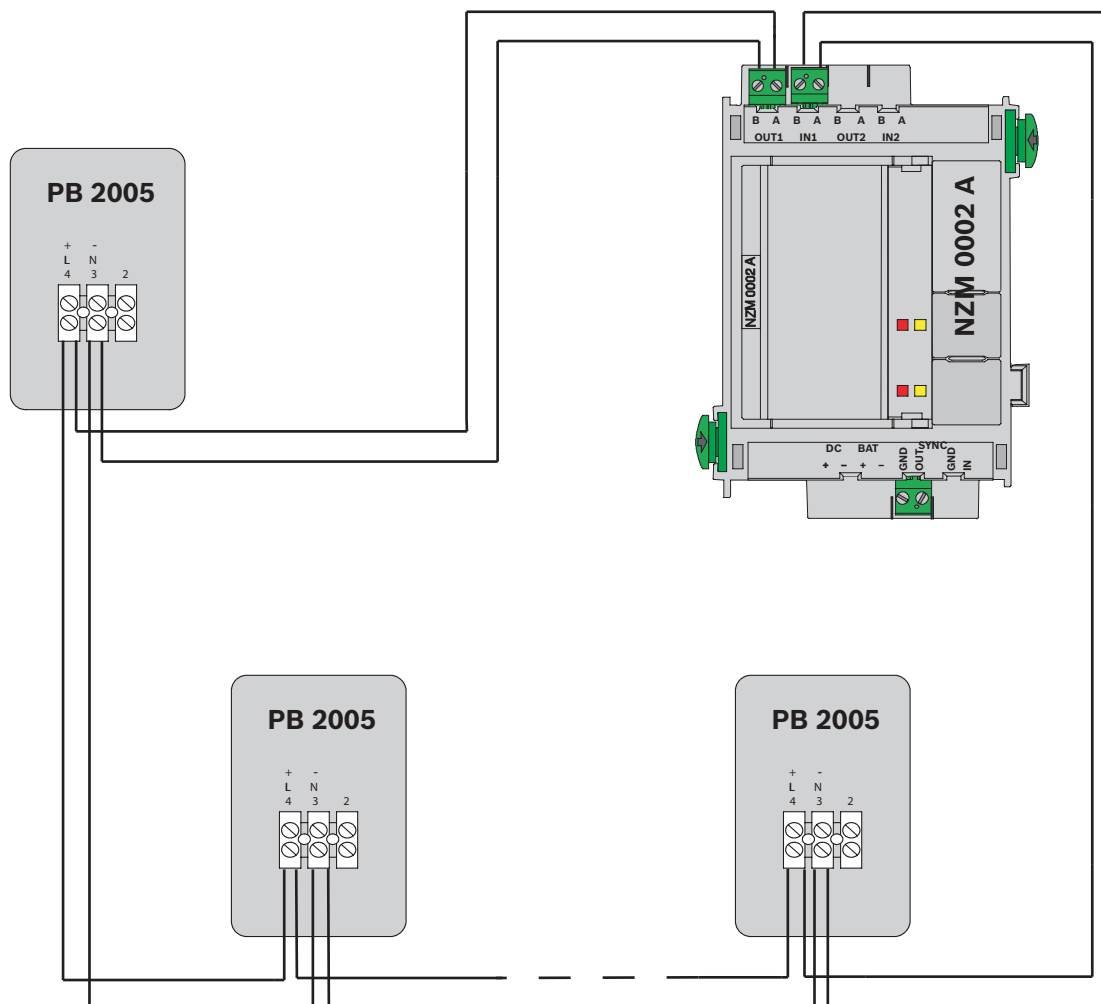
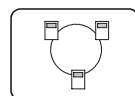


PB 2005



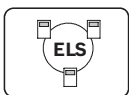


PB 2005

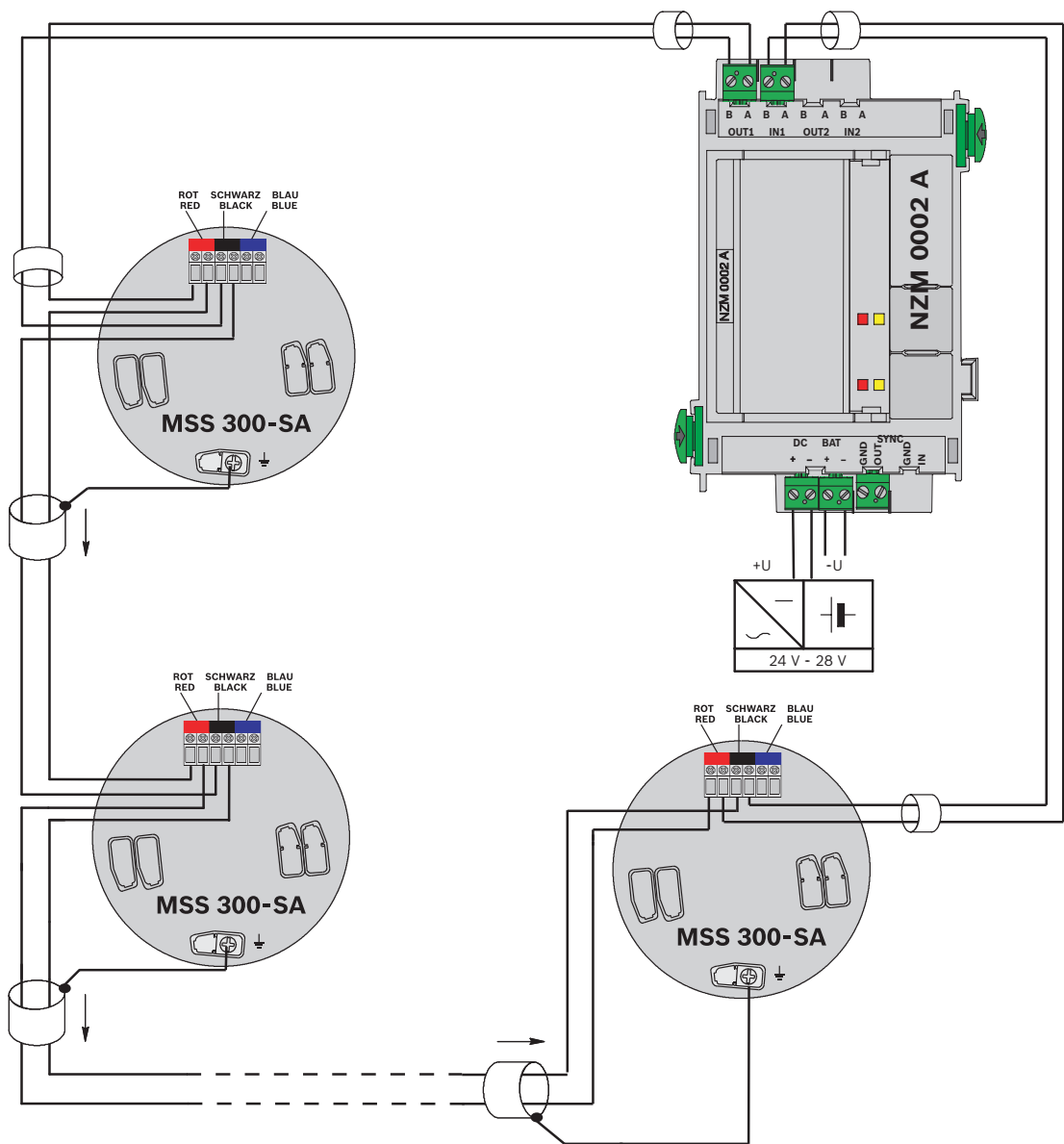


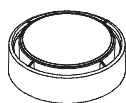


MSS 300-SA

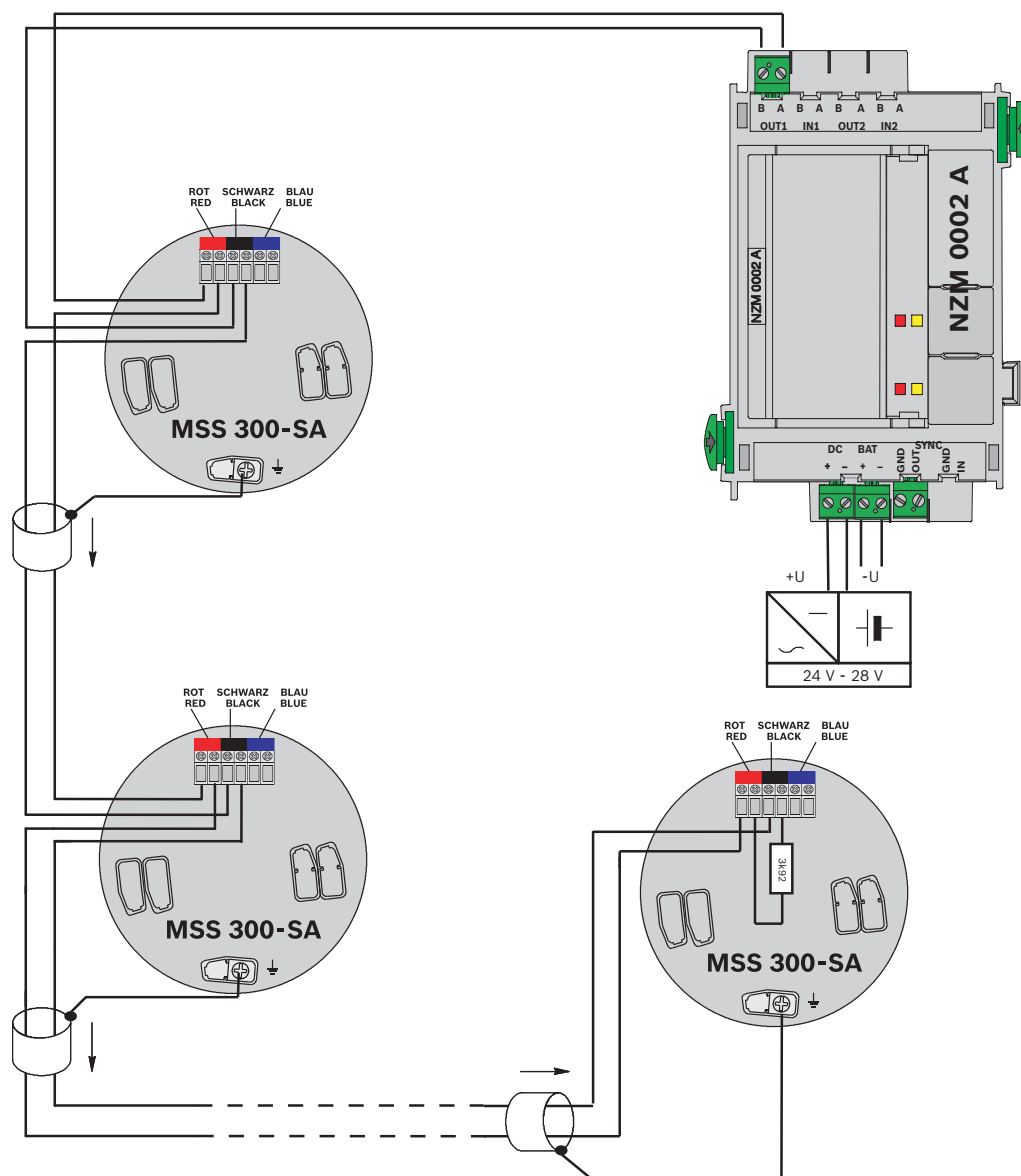
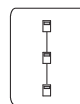


VdS 2489





MSS 300-SA



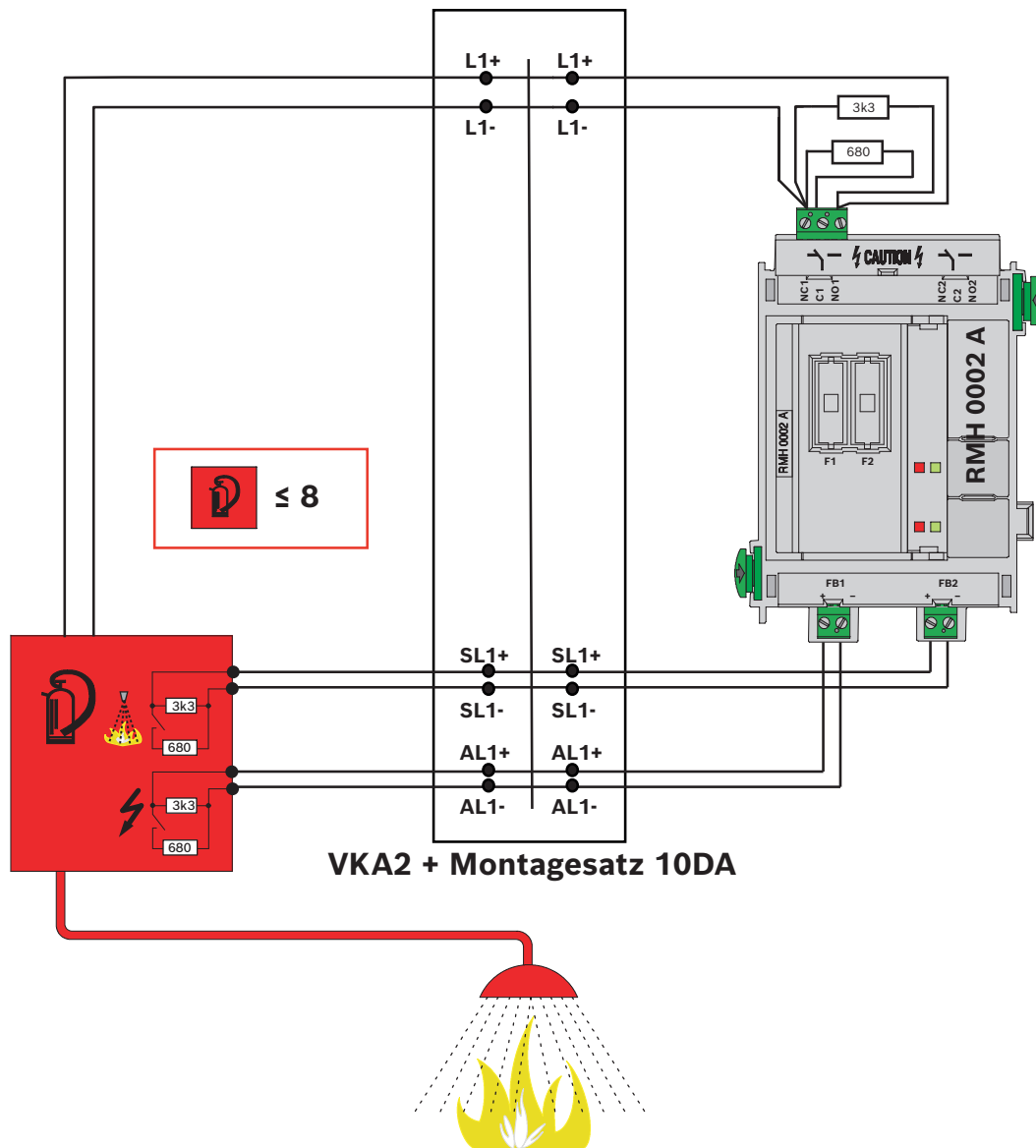
3.3.6

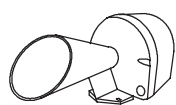
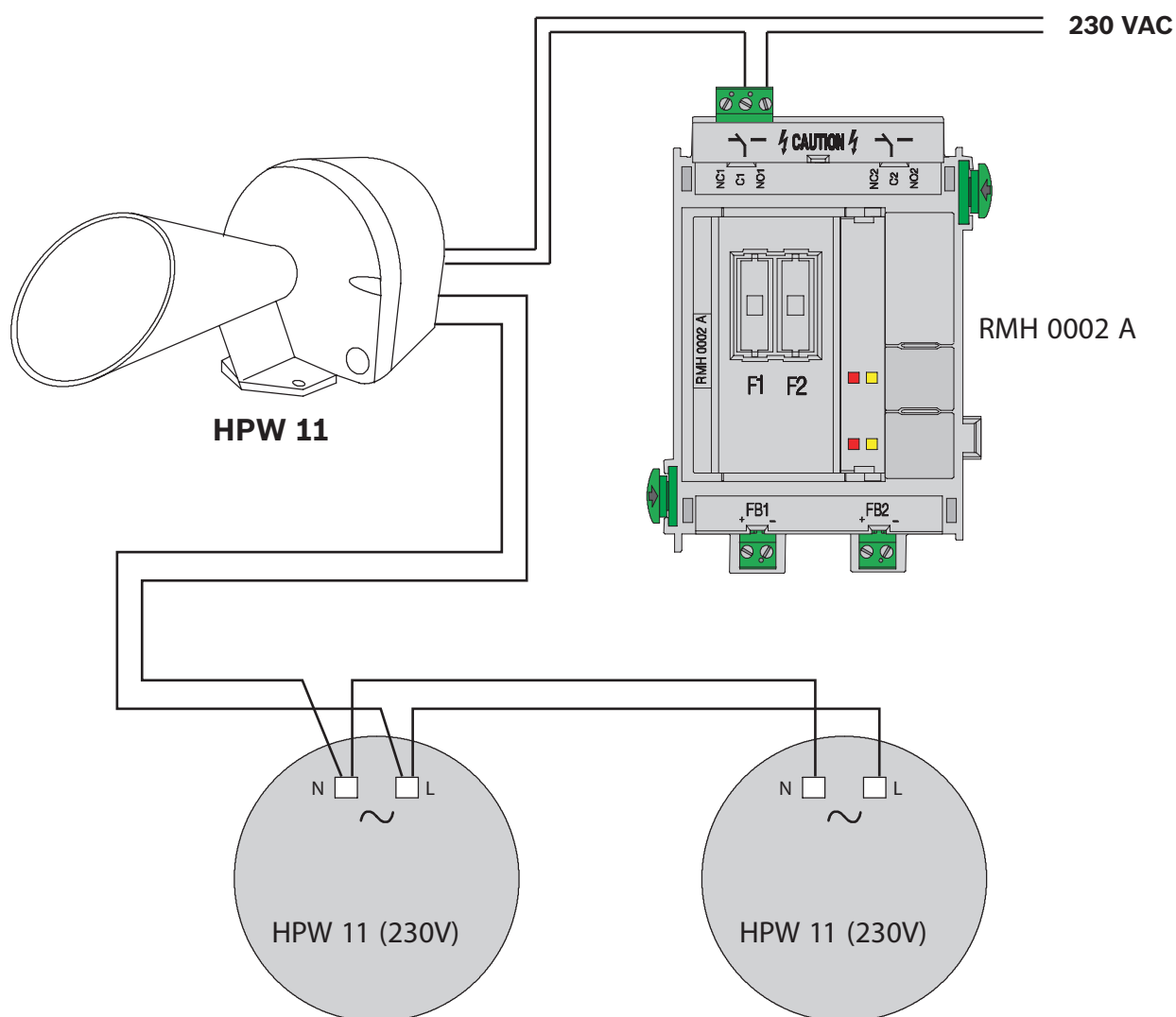
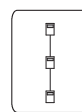
RMH 0002 A

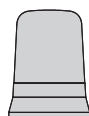
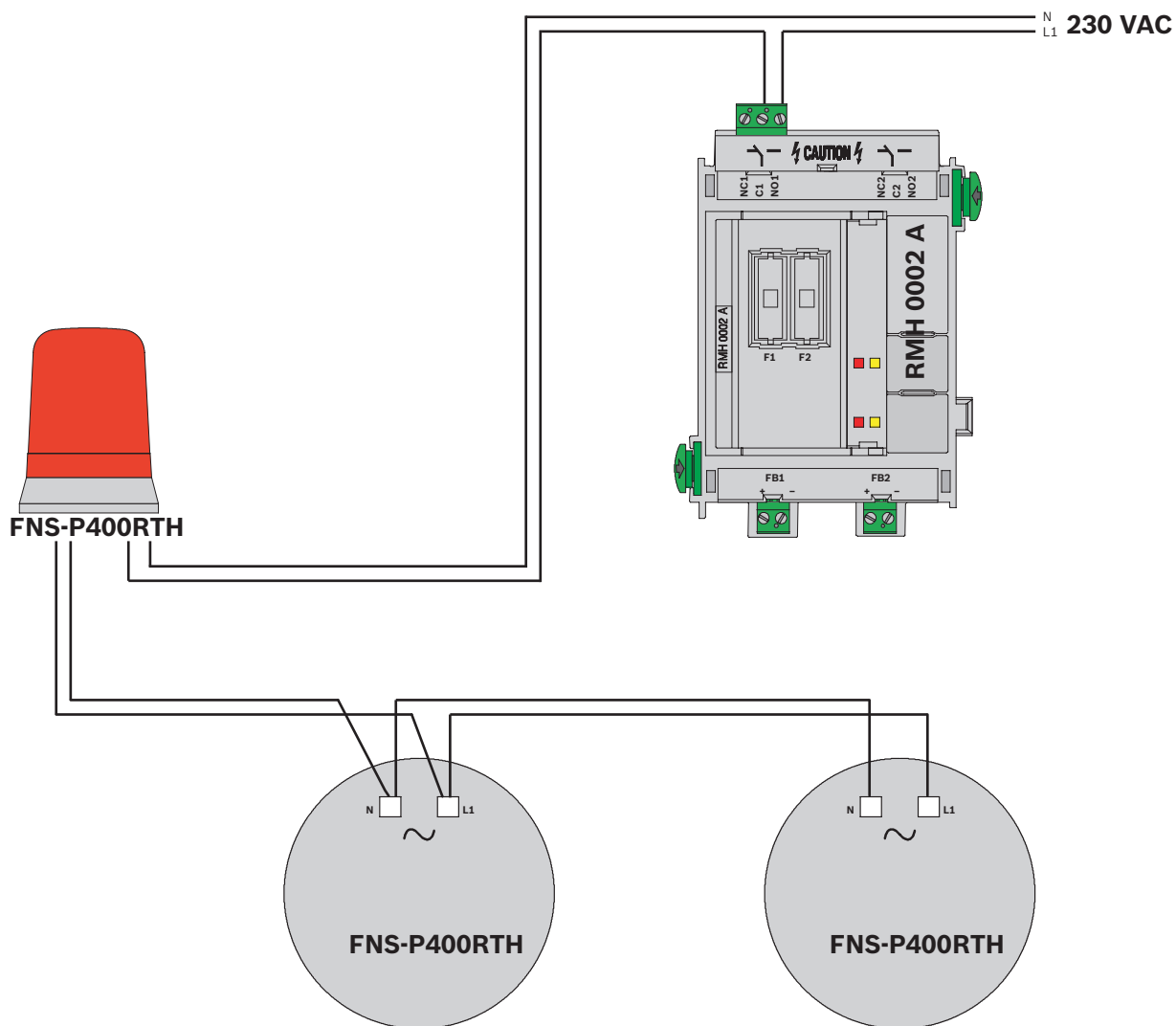
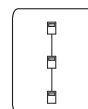


Löschanlage

VdS 2496:2005-09

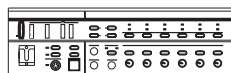
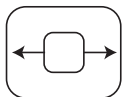


**HPW 11**

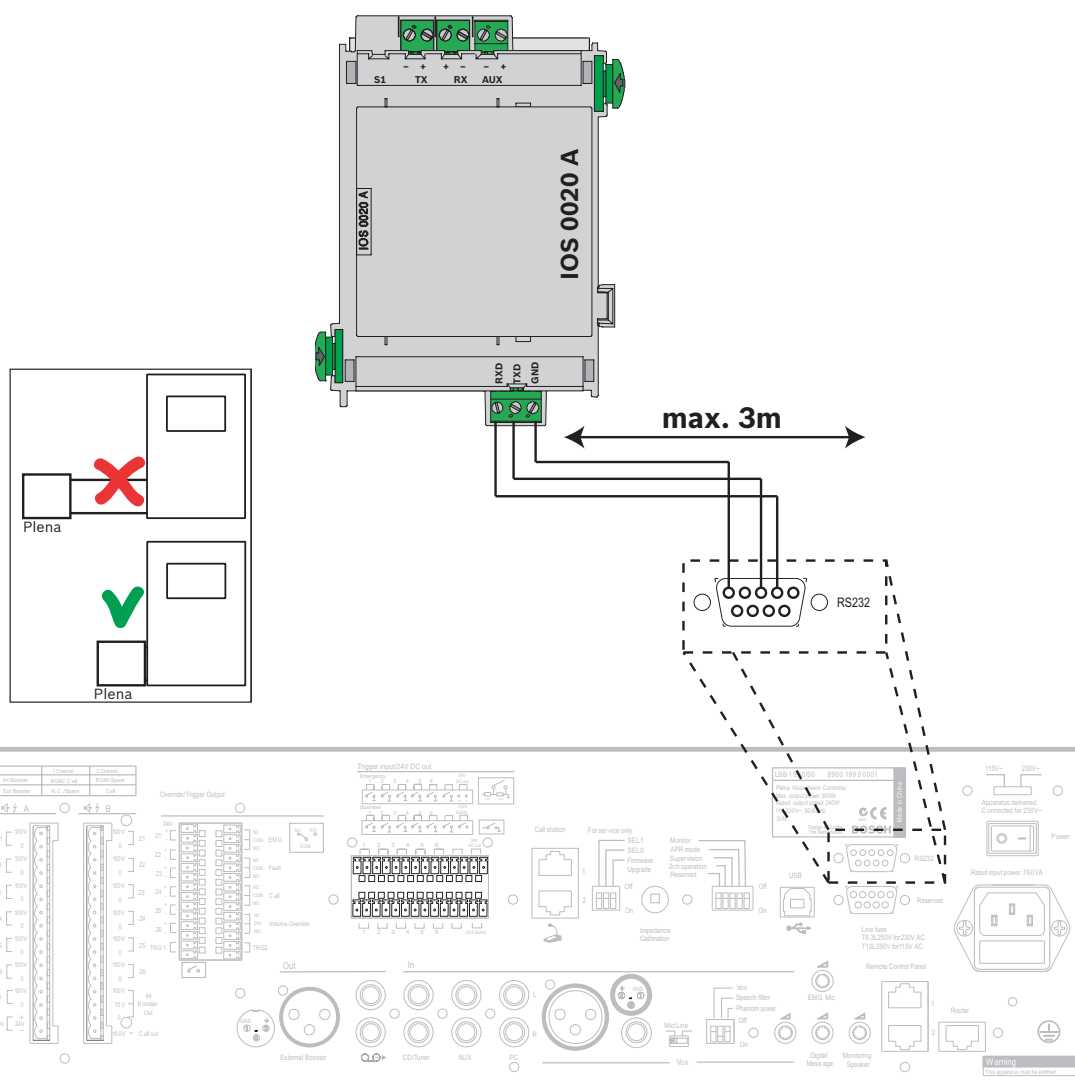
**FNS-P400RTH**

3.3.7

IOS 0020 A



Plena

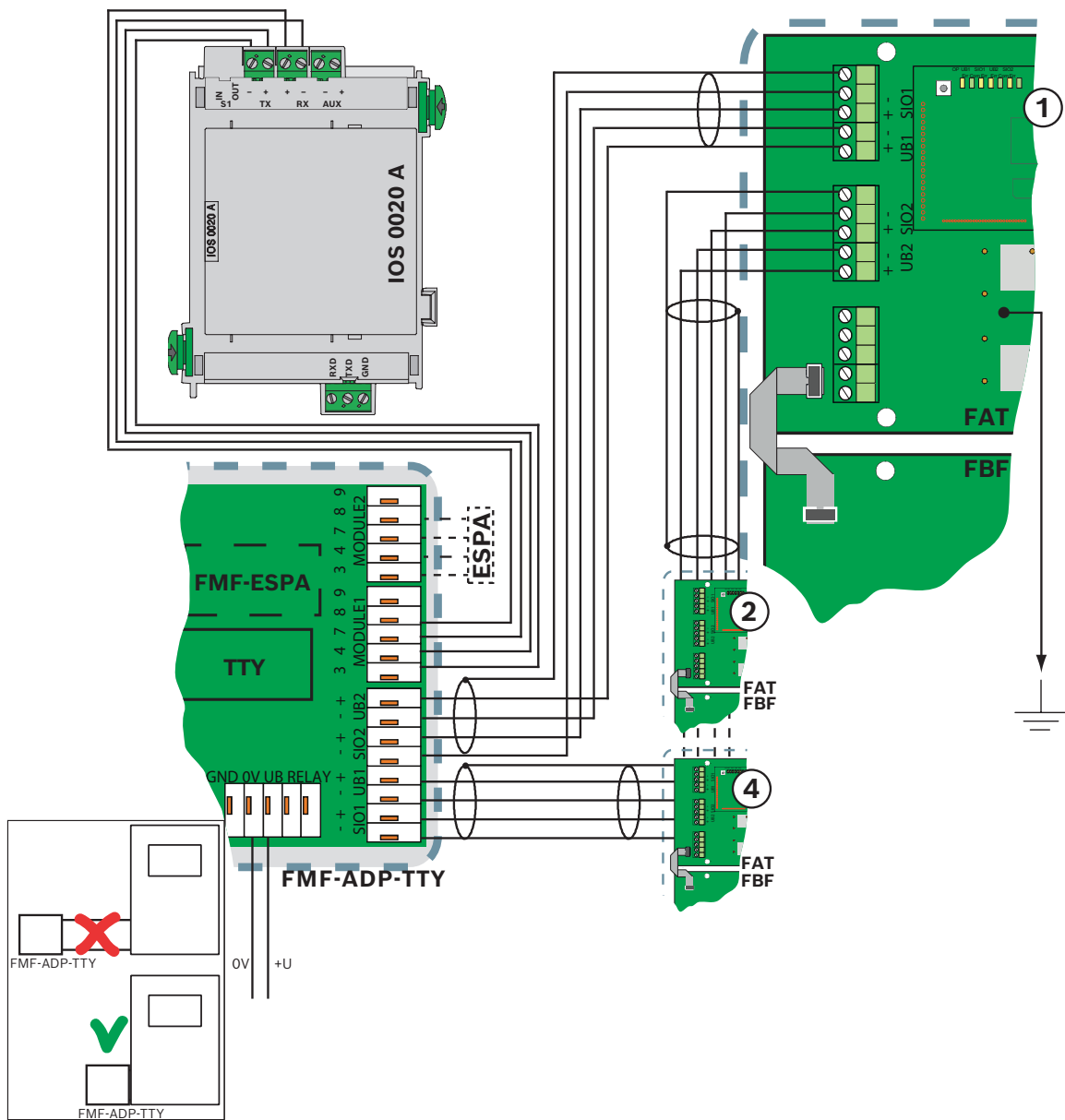




FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489

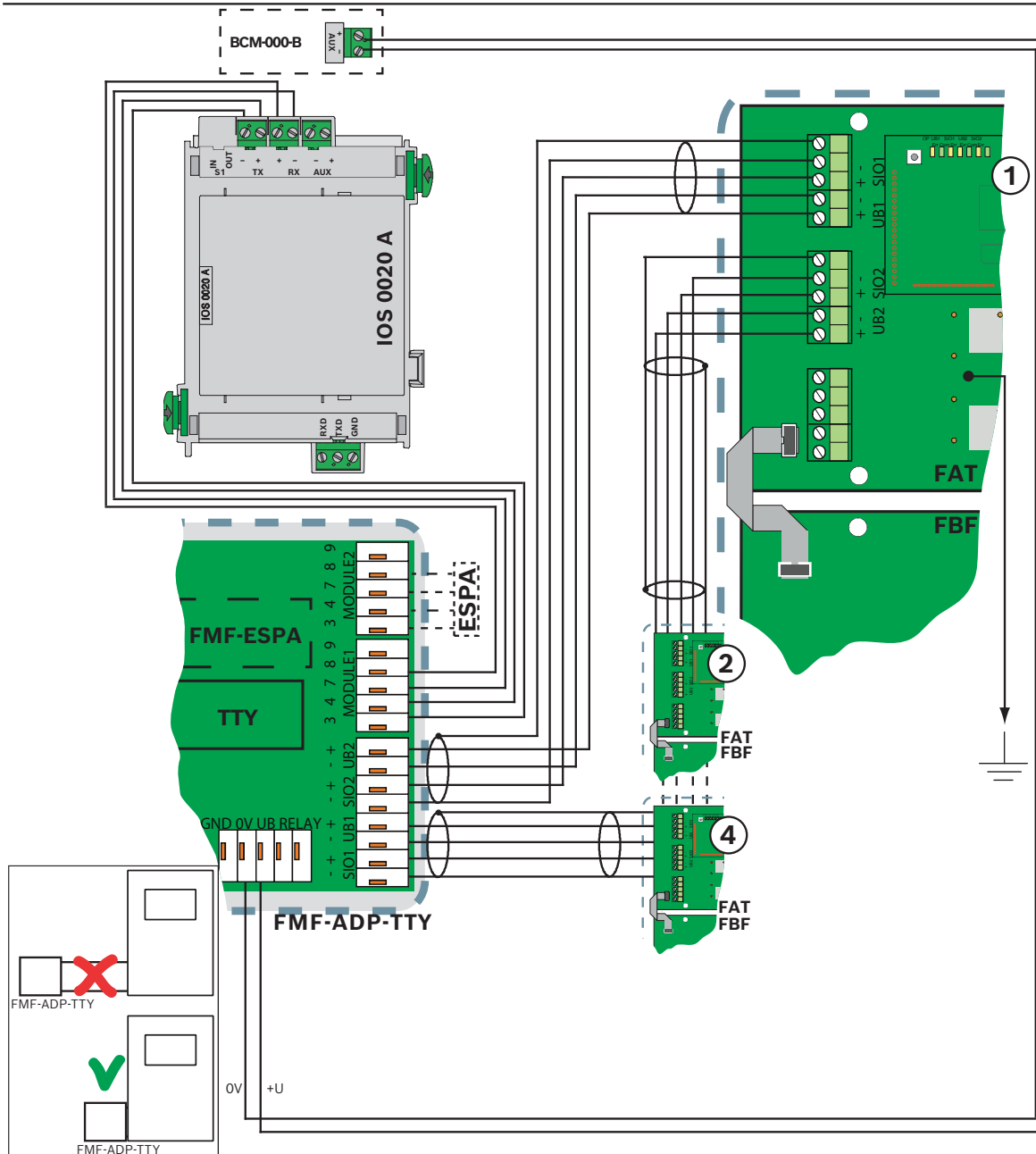




FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489



3.3.8

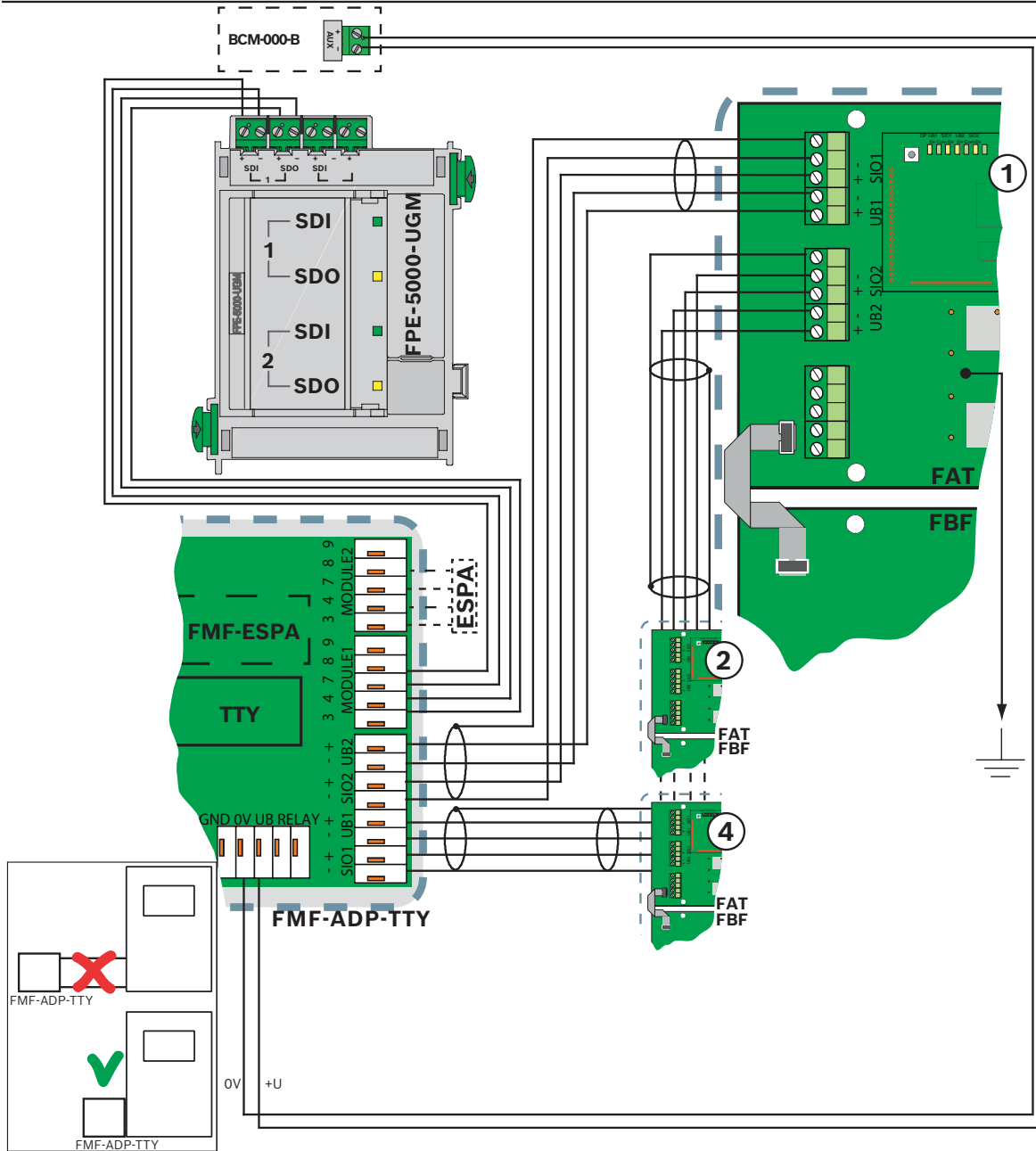
FPE-5000-UGM



FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489



3.4 Interface Modules



FLM-420-4/CON-D/S, pagina 114

FLM-420-NAC-D/S, pagina 139

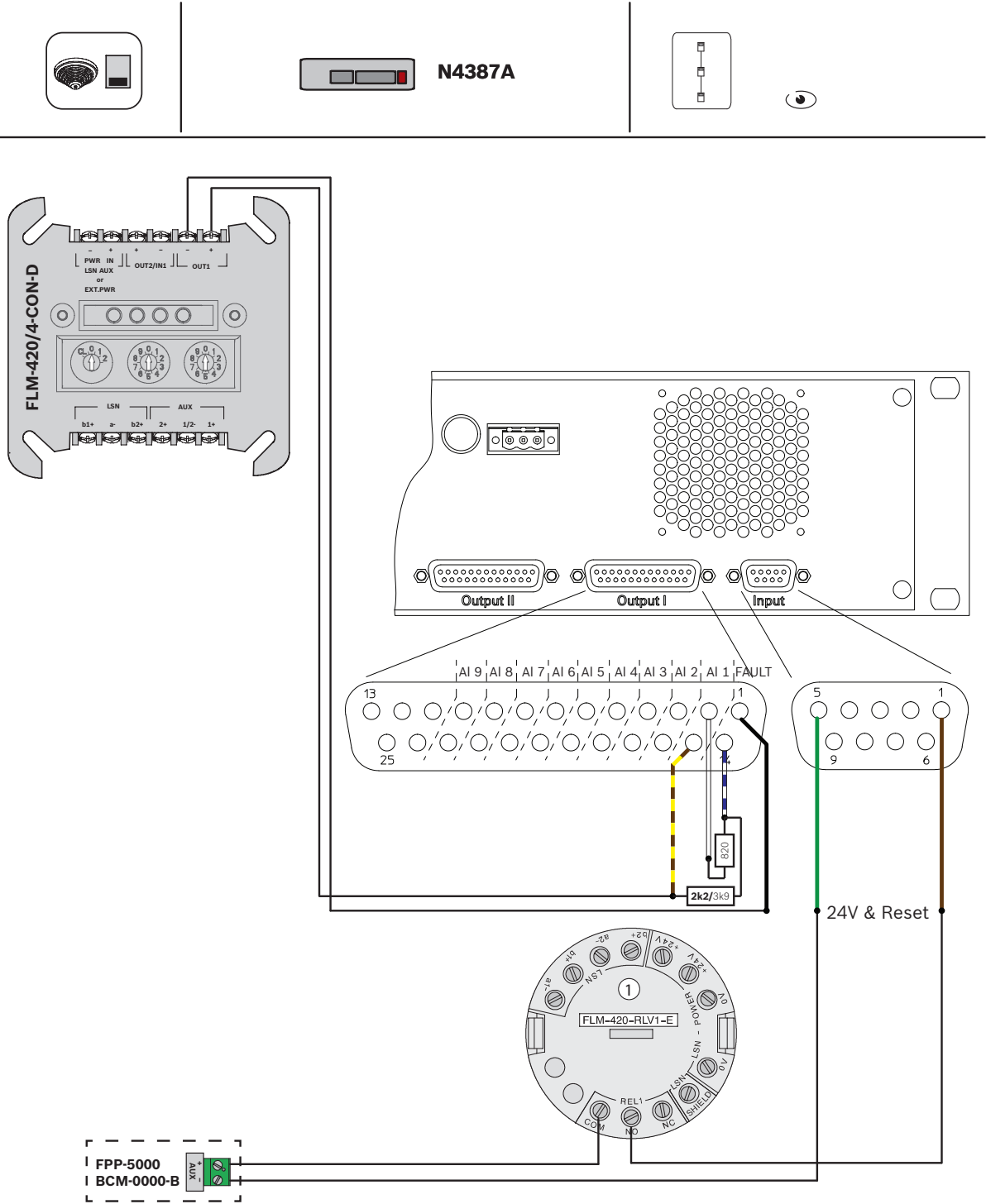
FLM-420-RLE-S, pagina 152

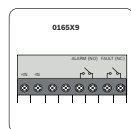
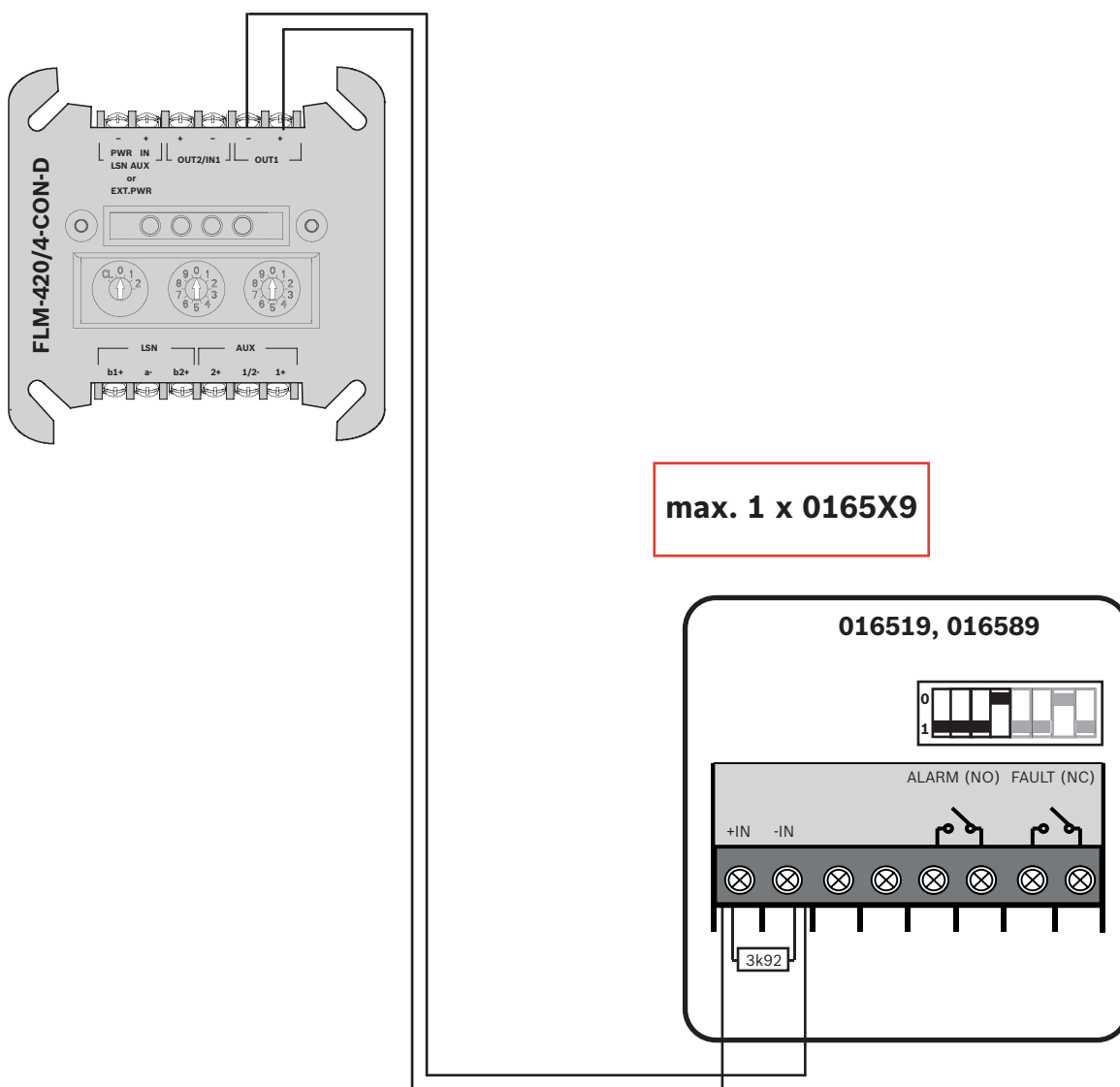
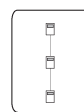
FLM-420-RLV1-E, pagina 153

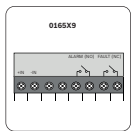
FLM-420-RLV8-S, pagina 154

FMF-ADP-FBF/FMF-ADP-TTY, pagina 155

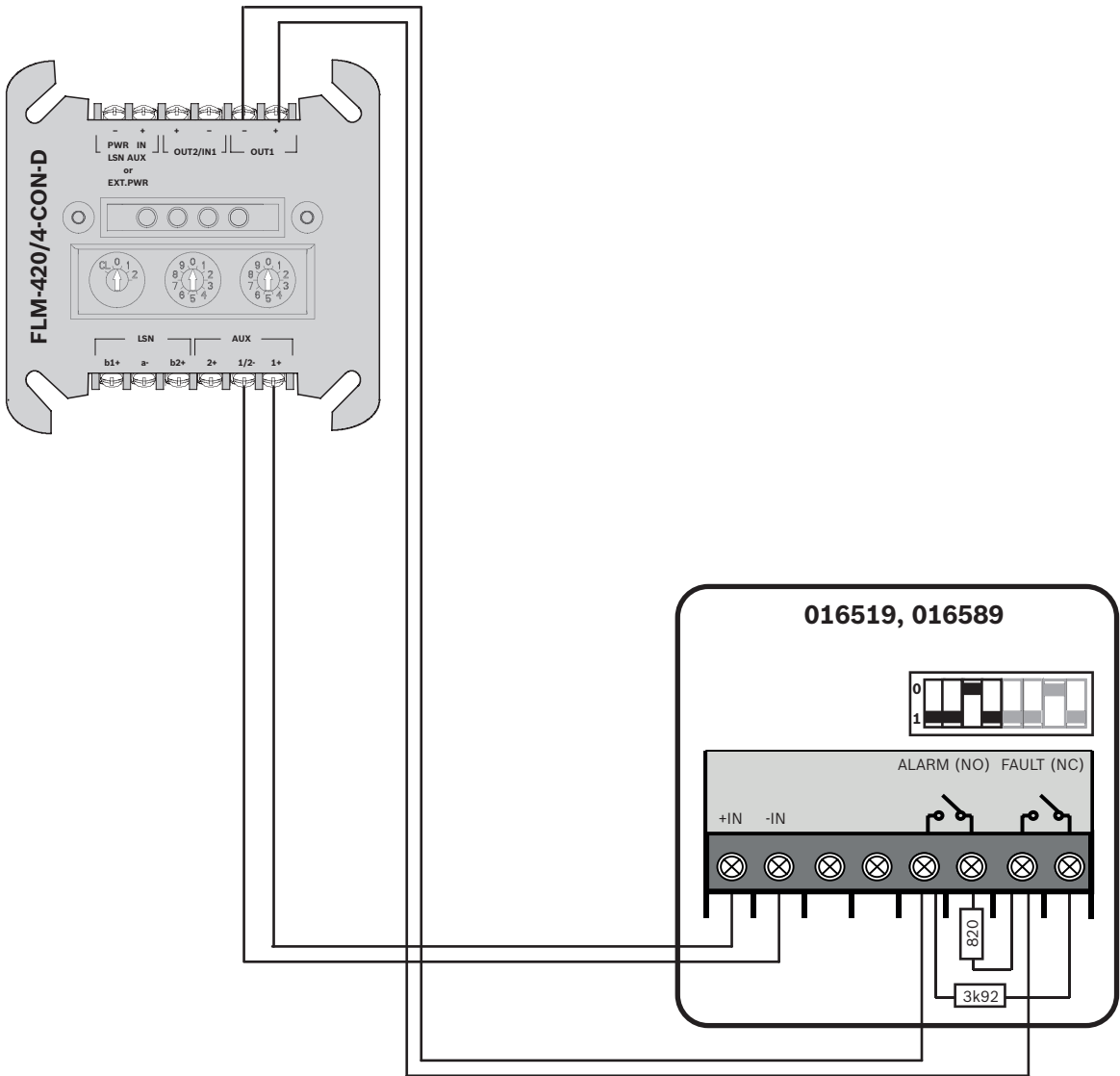
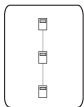
3.4.1 FLM-420-4/CON-D/S

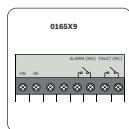


**016519, 016589**
IR3 Flame Detector

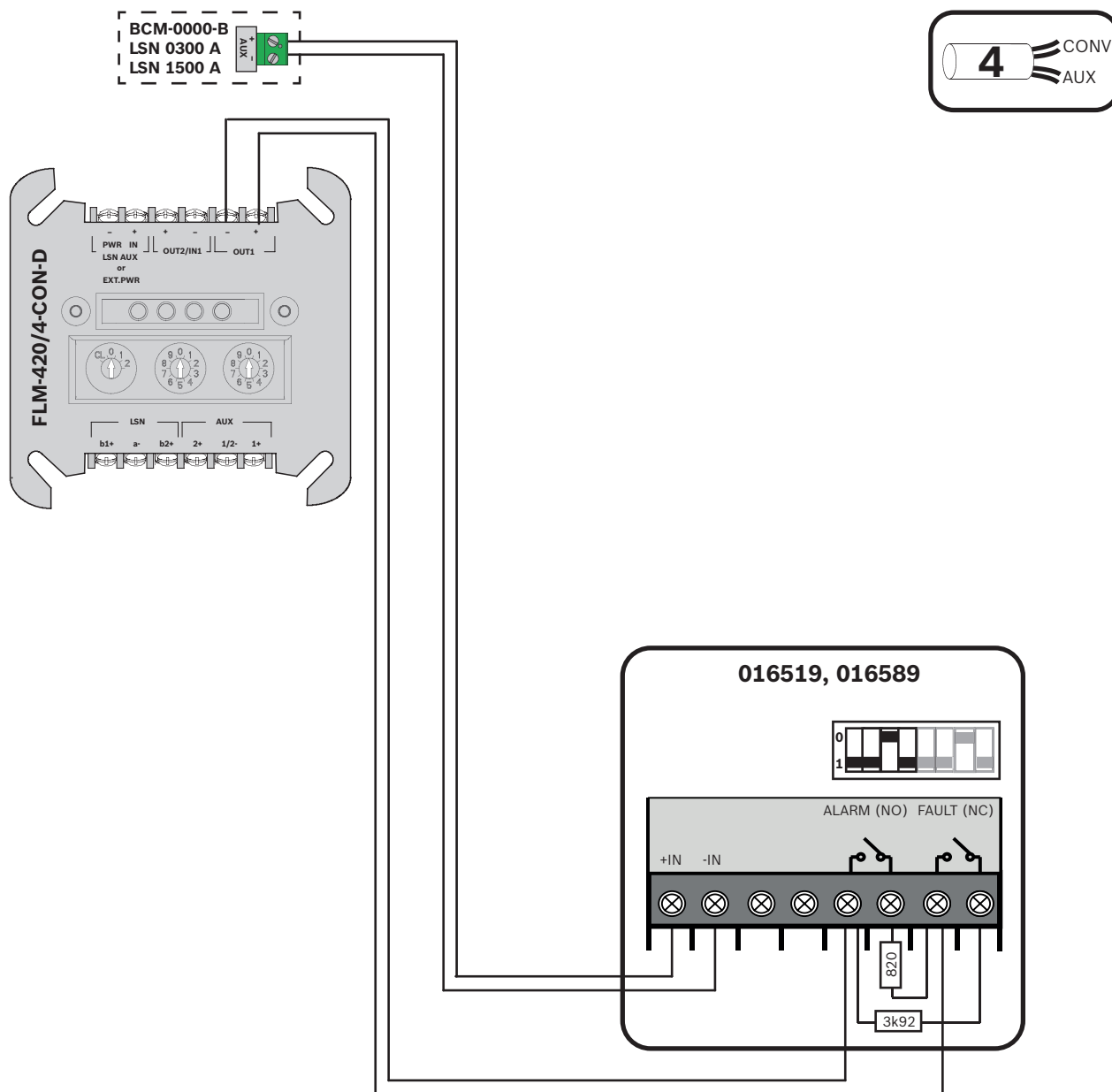
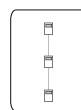


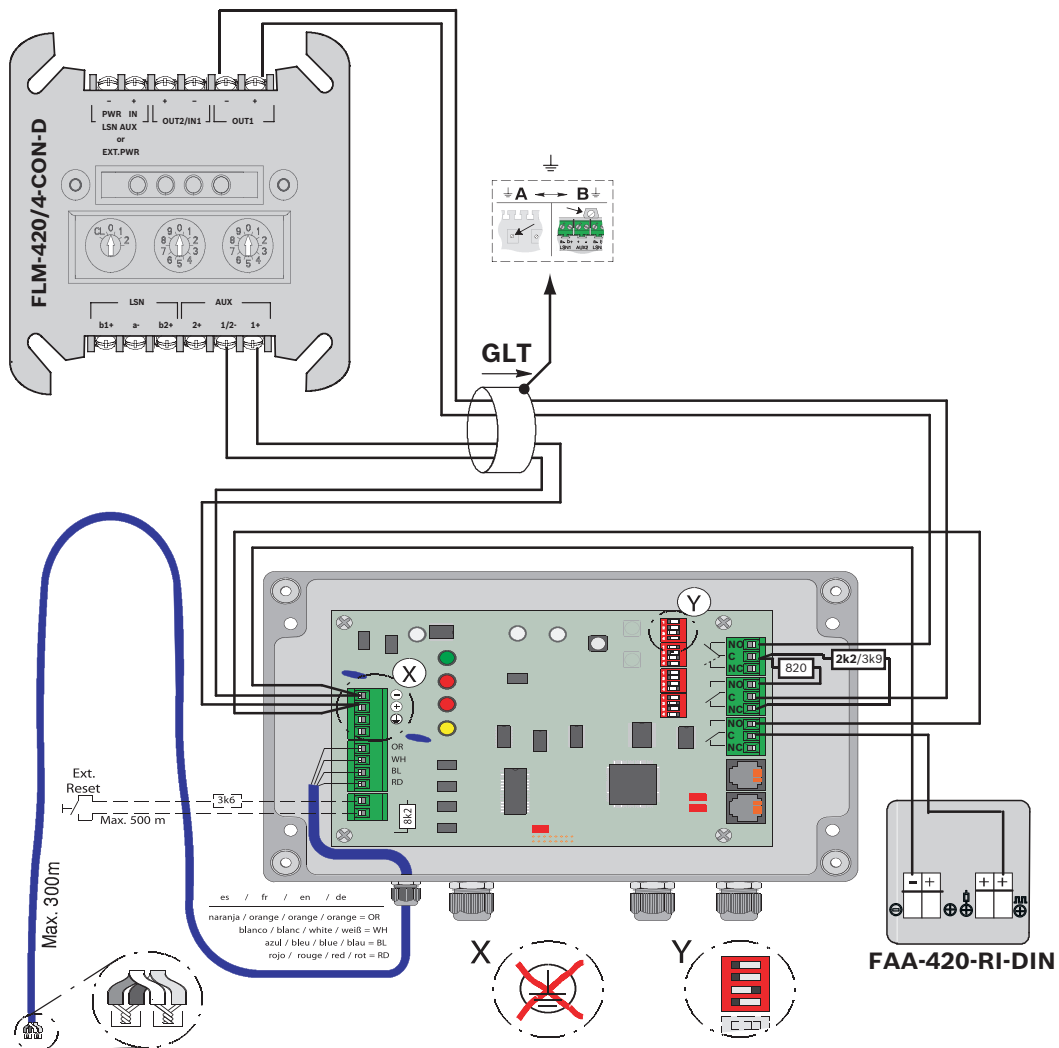
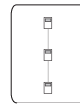
016519, 016589
IR3 Flame Detector

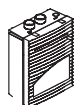




016519, 016589 IR3 Flame Detector



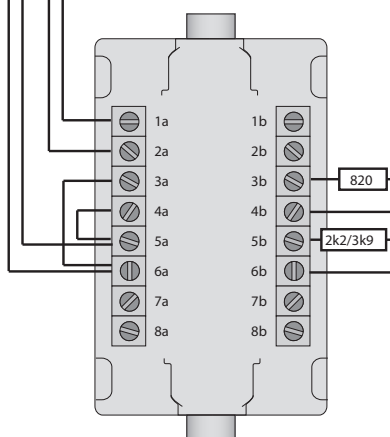
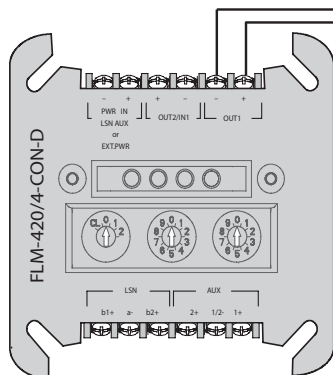
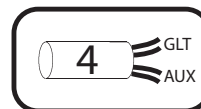


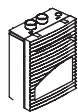


FCS-320-TM Series

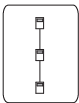


BCM-0000-B
LSN 0300 A
LSN 1500 A

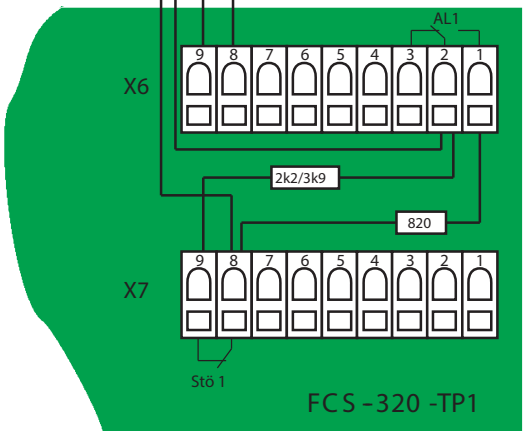
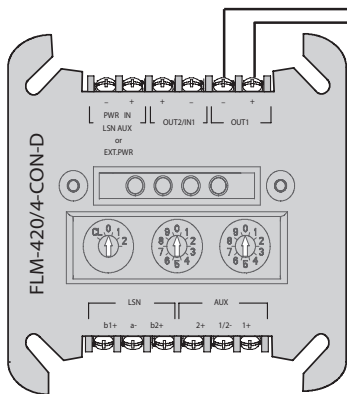
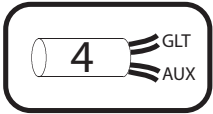


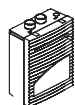


FCS-320-TP Series

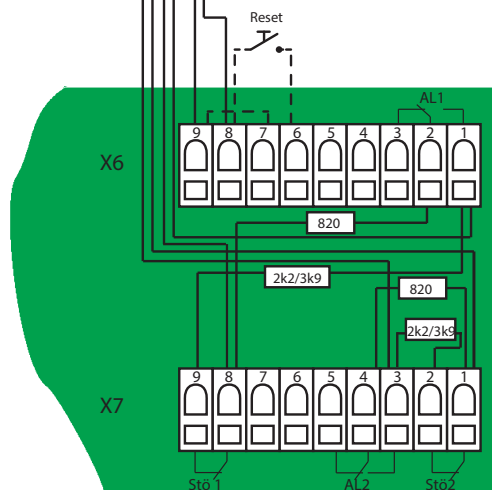
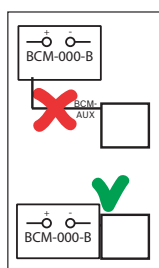
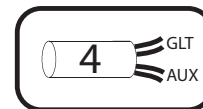
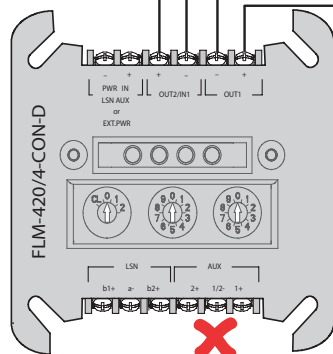
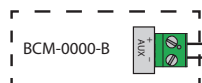


BCM-0000-B
LSN 0300 A
LSN 1500 A

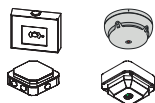




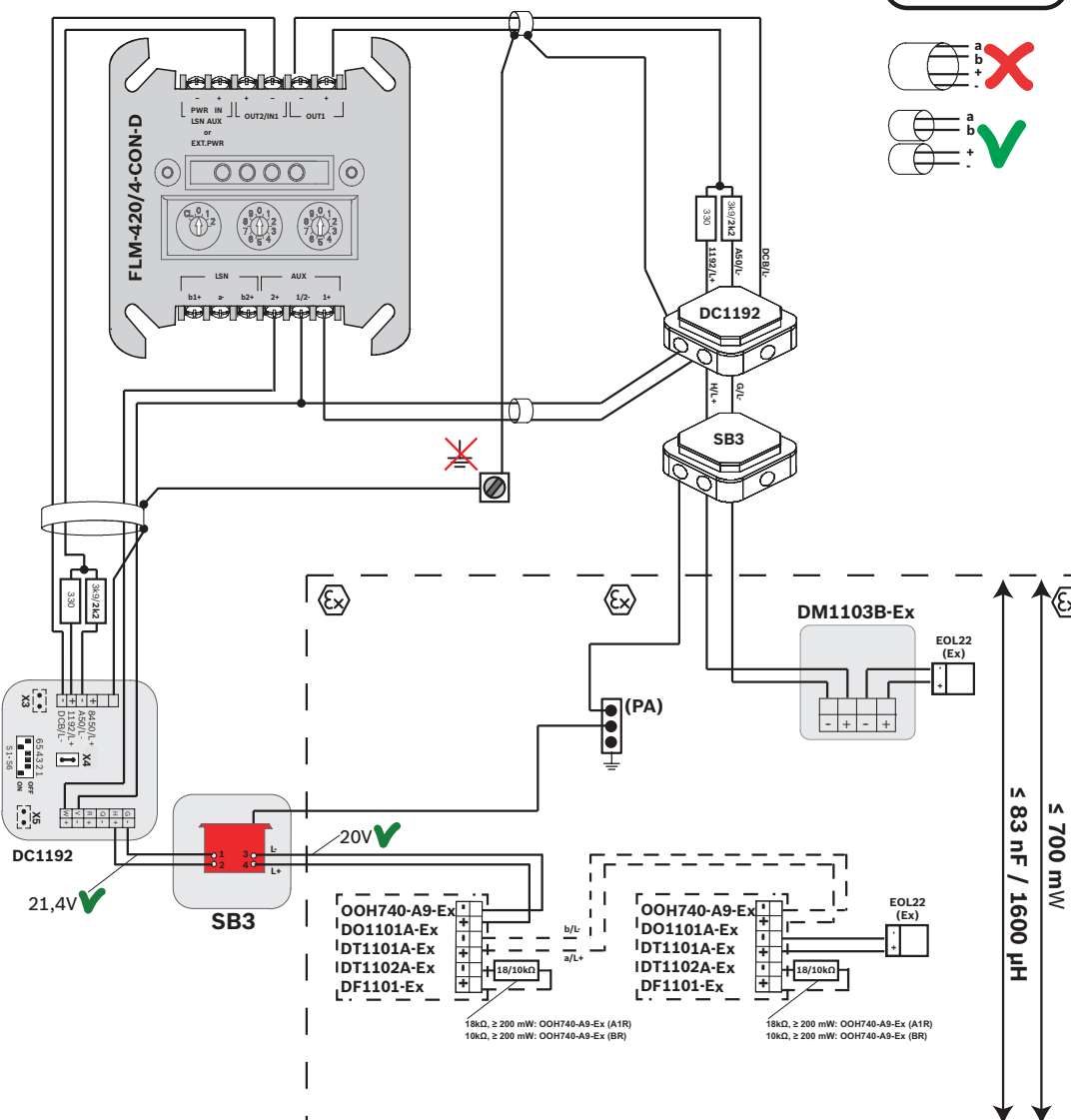
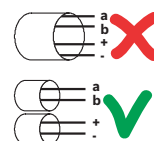
FCS-320-TP Series



FCS-320-TP2

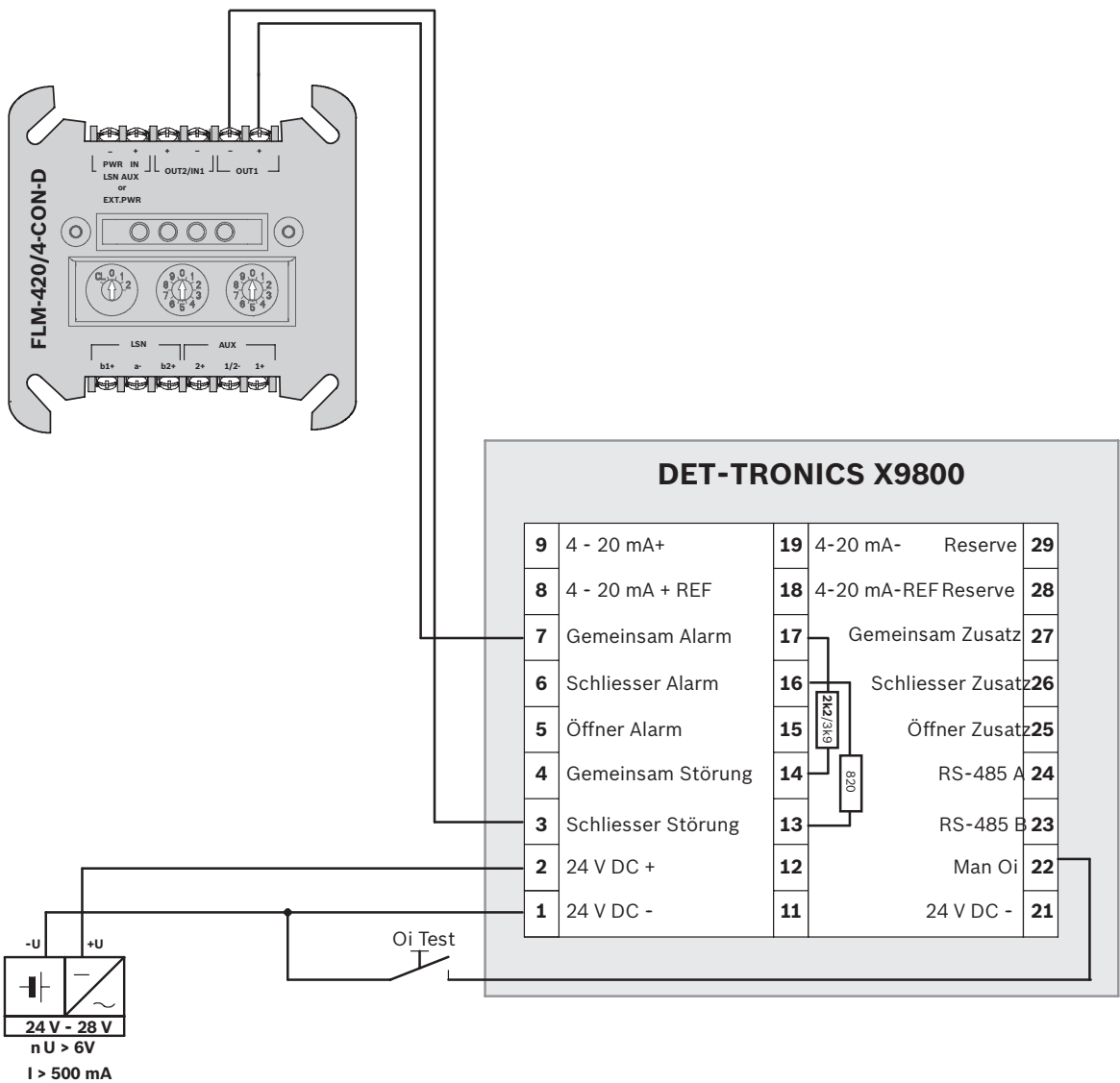
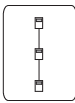


DC1192, SB3
OOH740-A9-Ex
DO1101A-Ex
DT1101A-Ex/DT1102A-Ex
DF1101-Ex
DM1103B-Ex



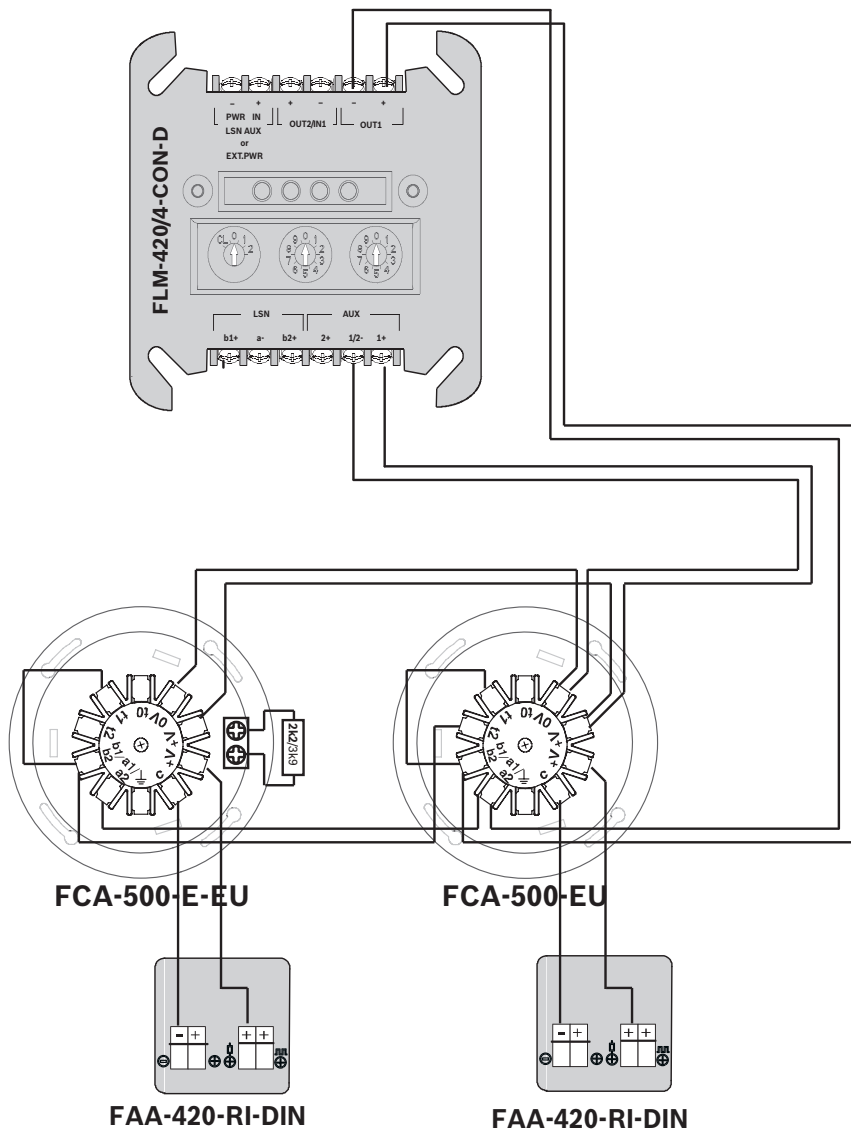


DET-TRONICS X9800



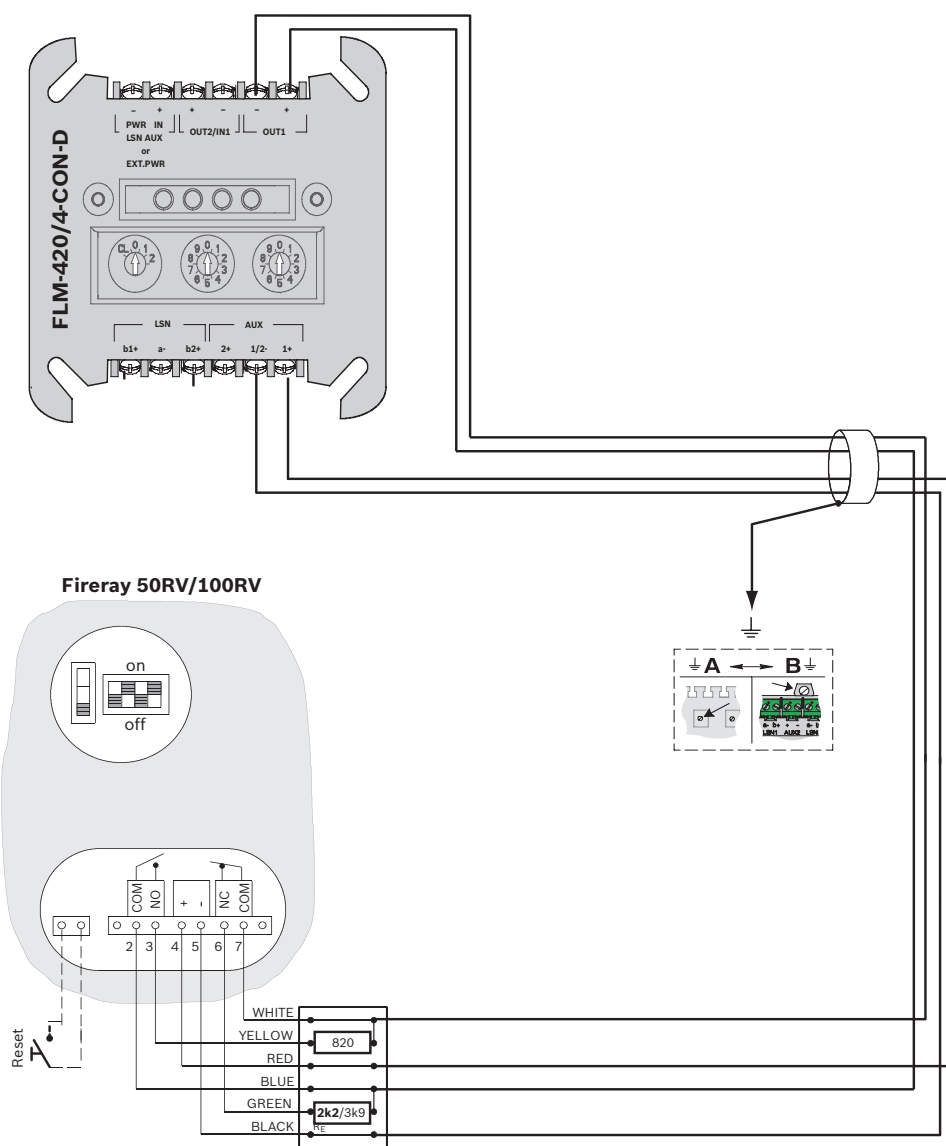


FCP-500





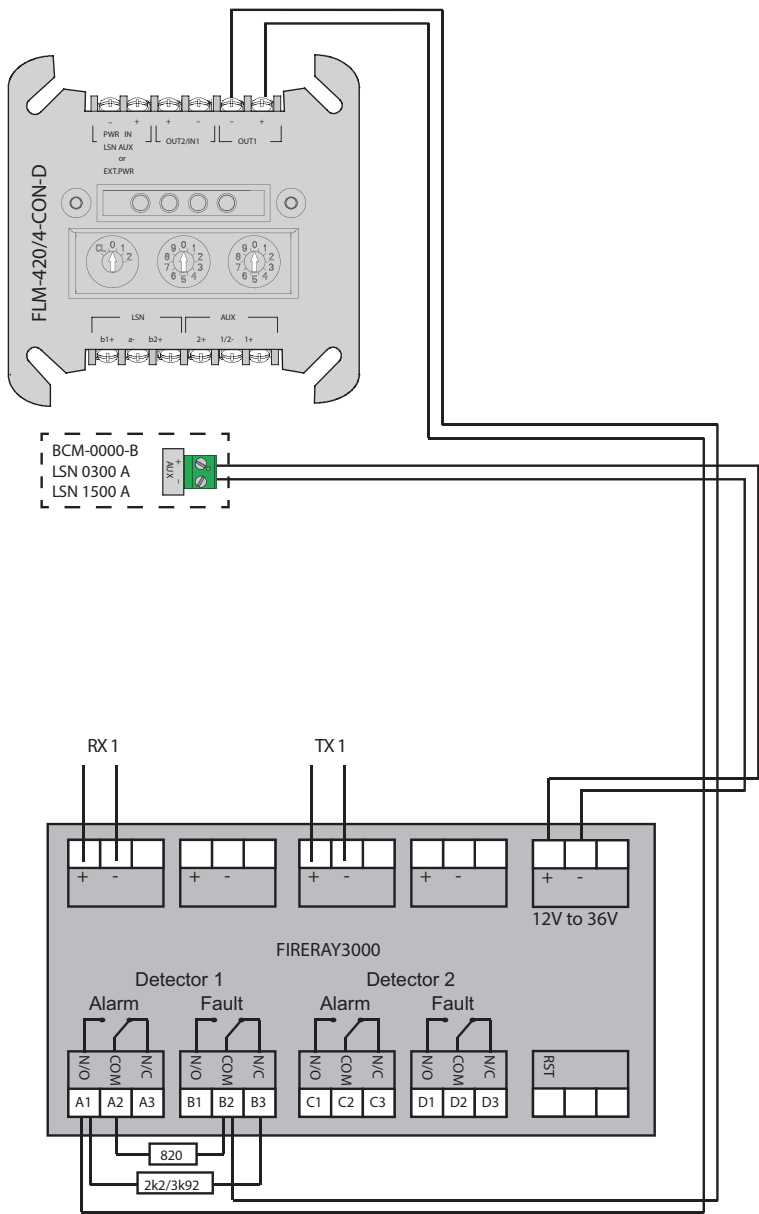
**Fireray 50RV
Fireray 100RV**

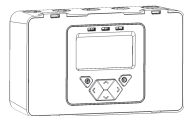




FIRERAY3000

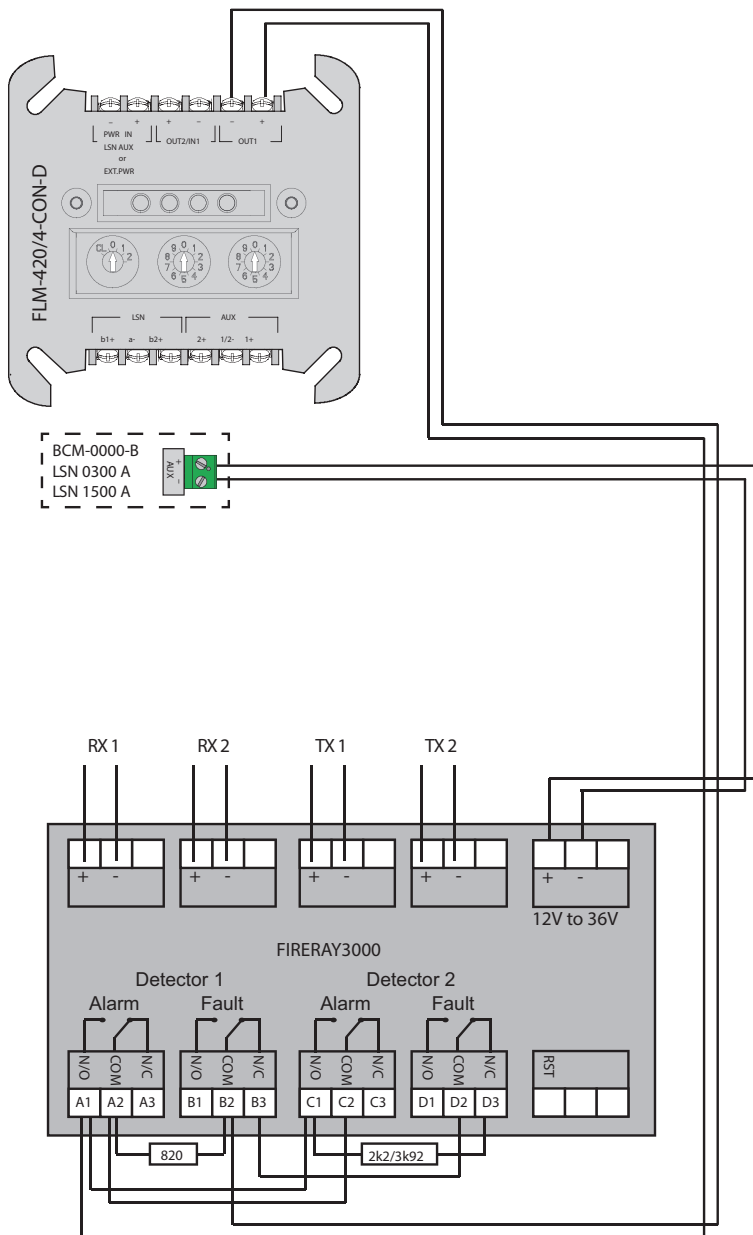
1 x





FIRERAY3000

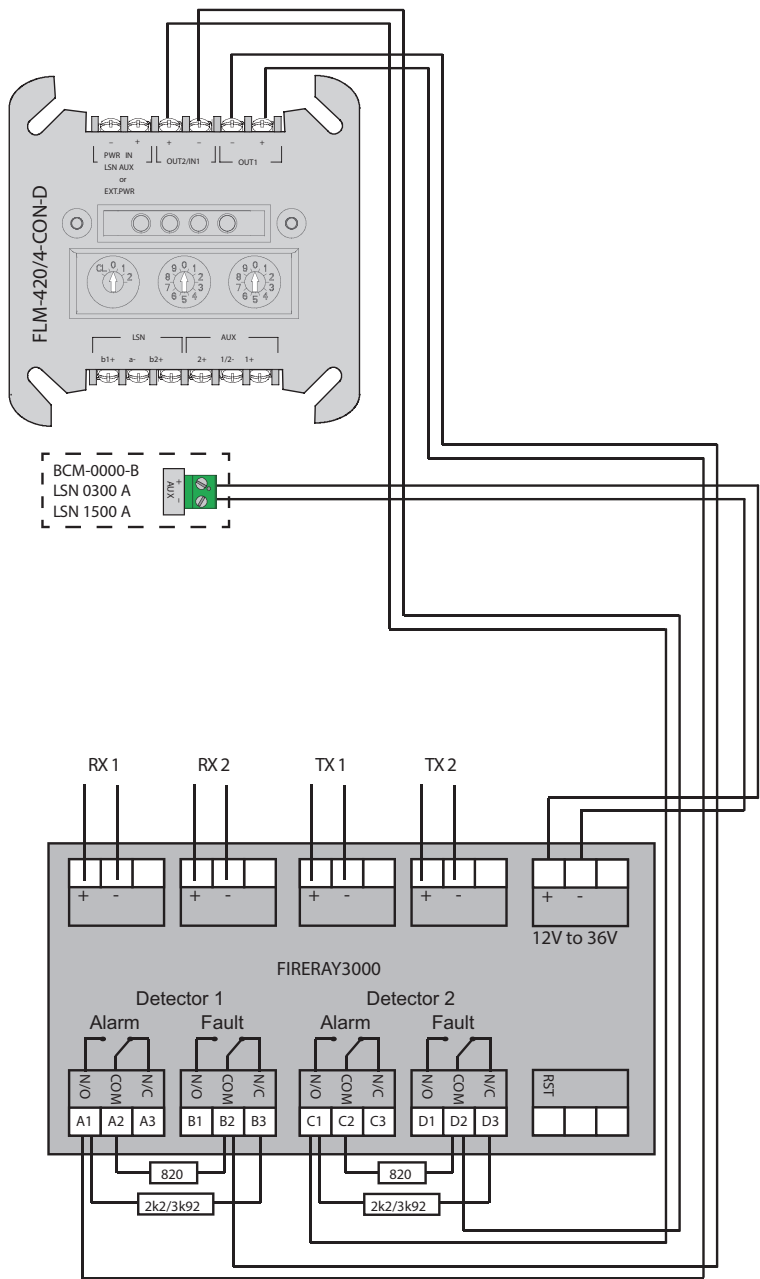
2 x





FIRERAY3000

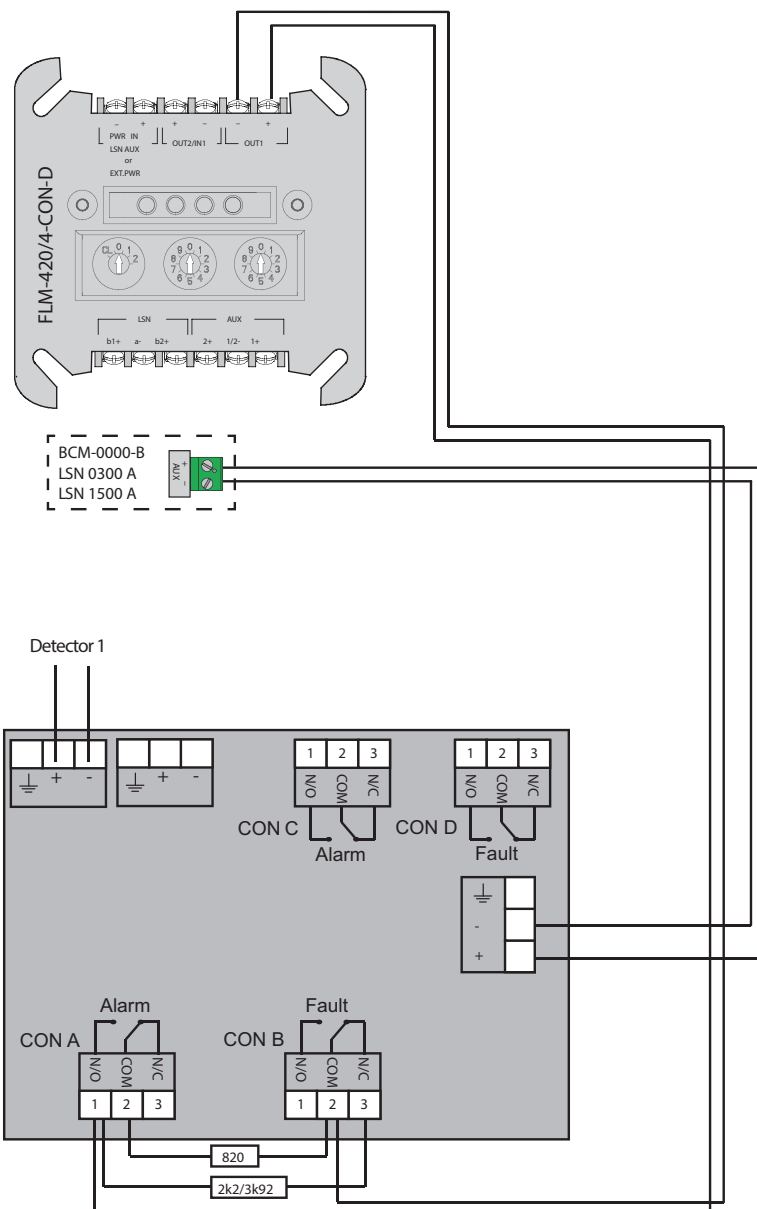
2 x 1+2

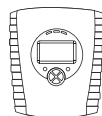




FIRERAY5000

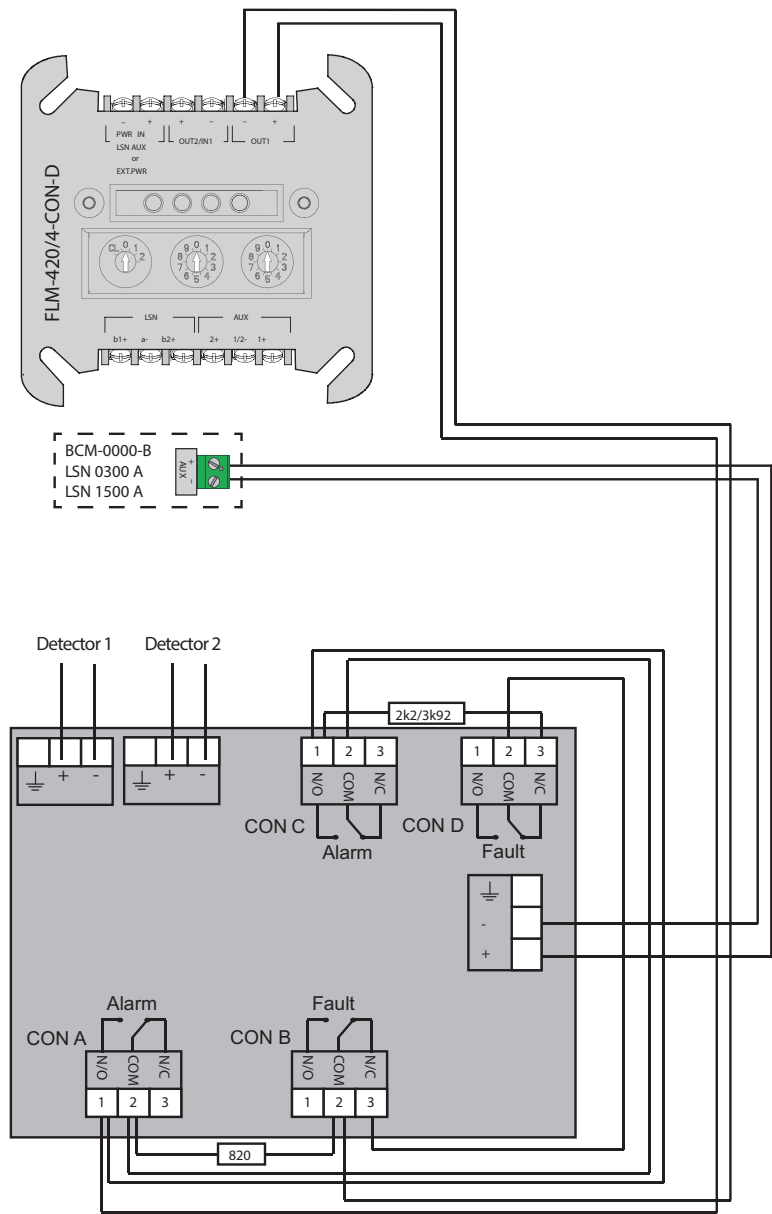
1 x





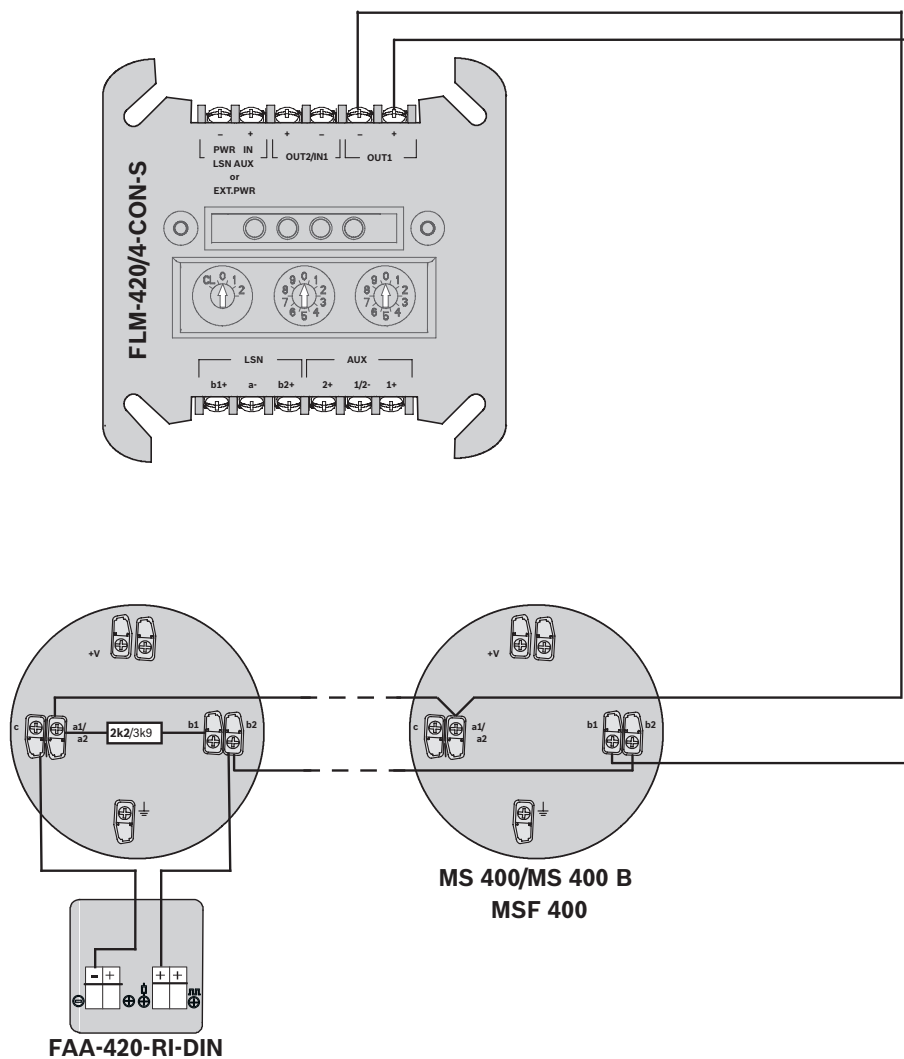
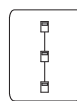
FIRERAY5000

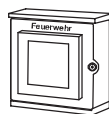
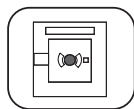
2 x OUT1



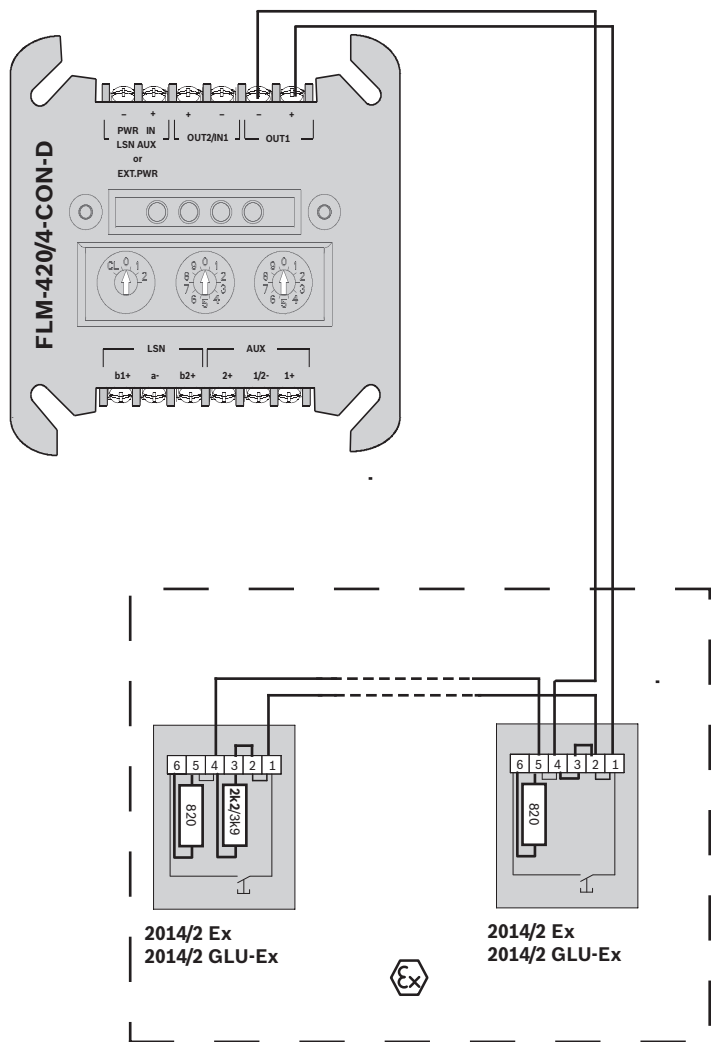
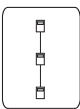


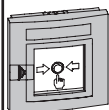
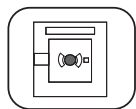
FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/-DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



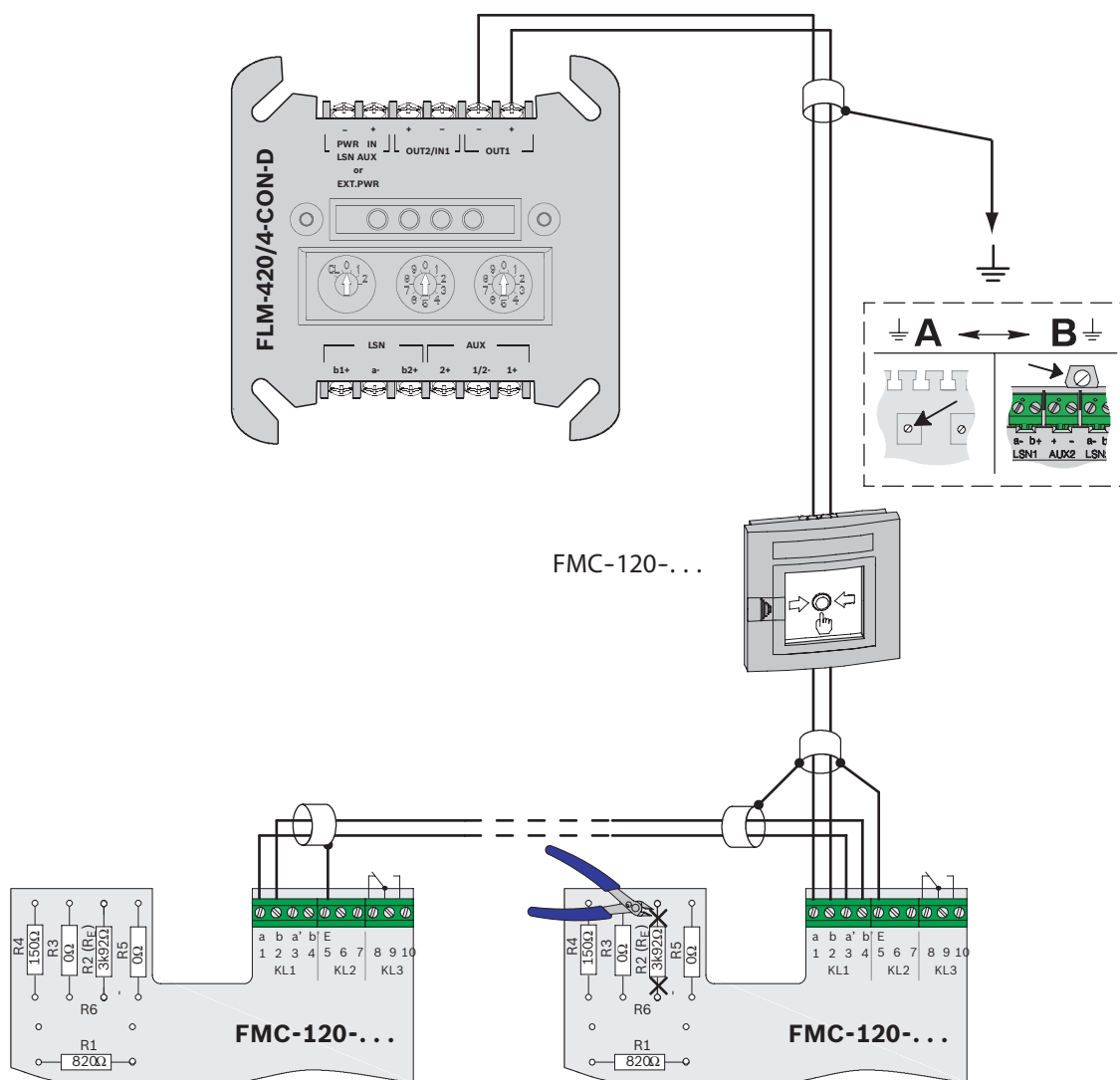
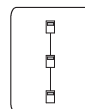


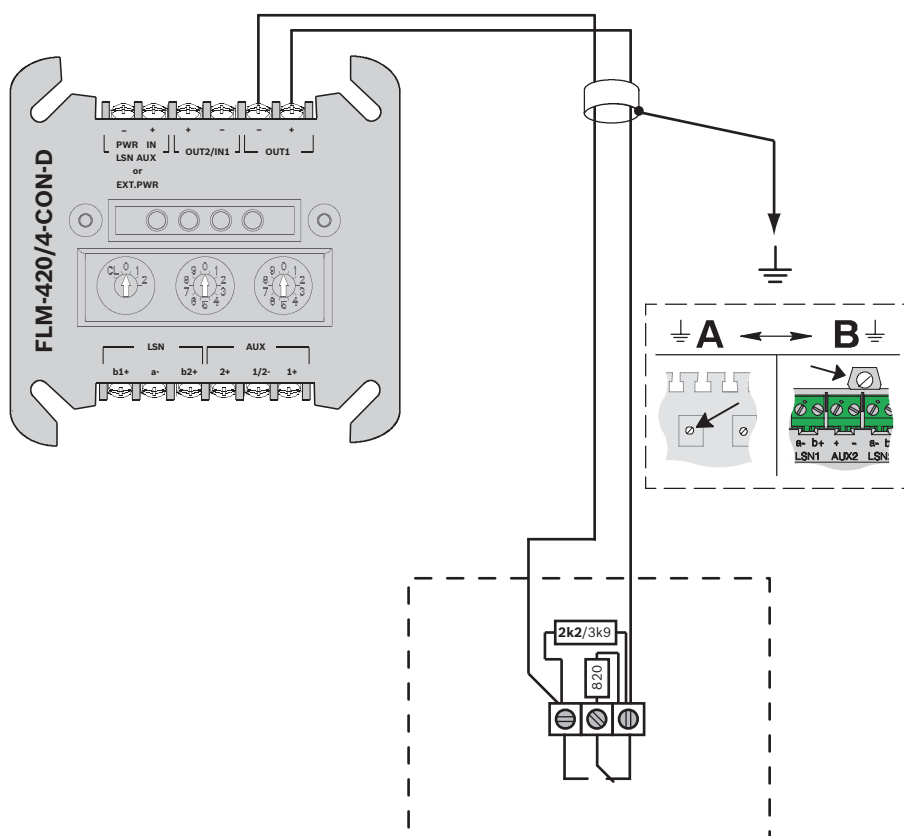
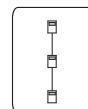
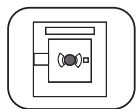
2014/2 Ex
2014/2 GLU-Ex

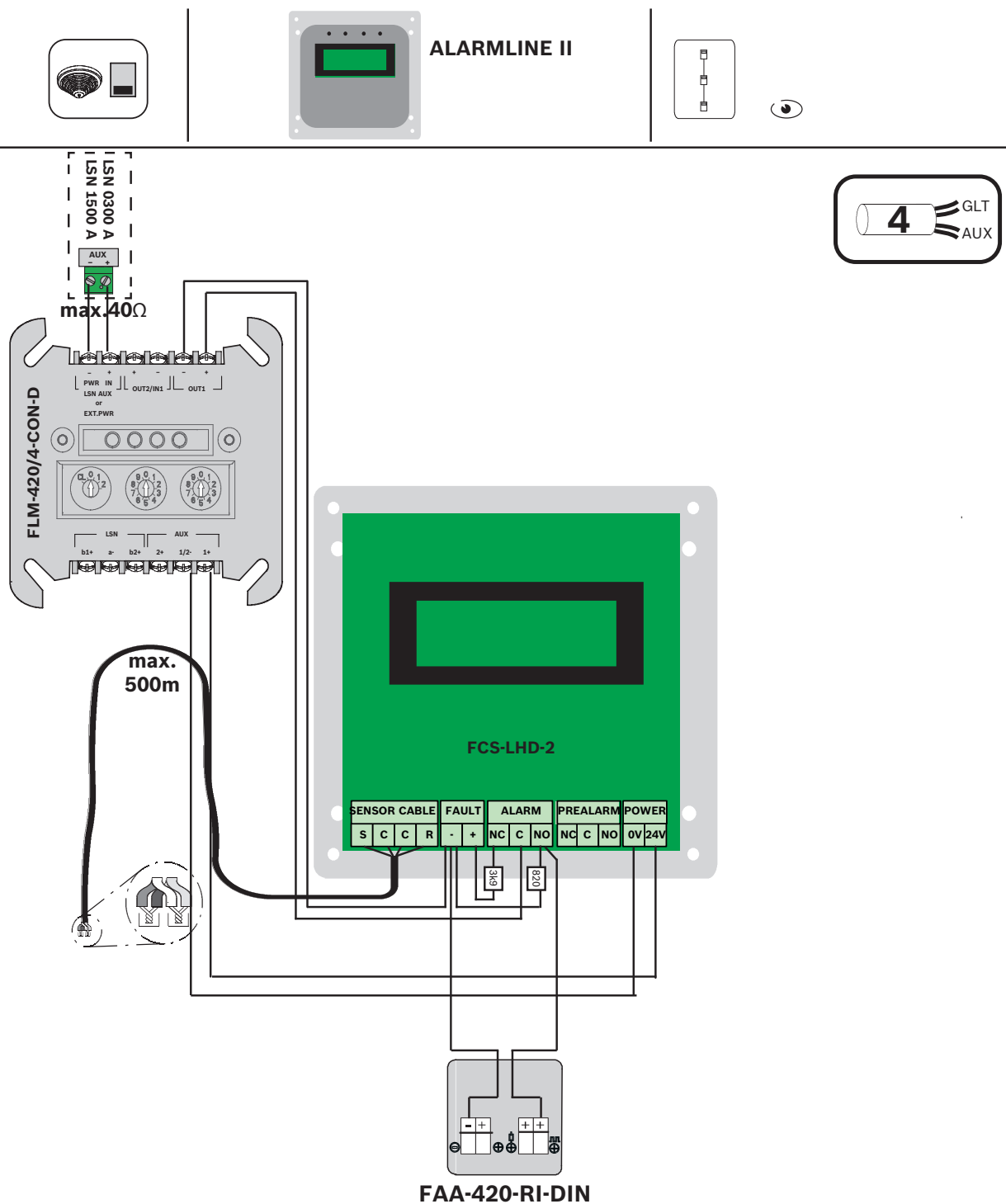


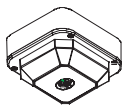


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B

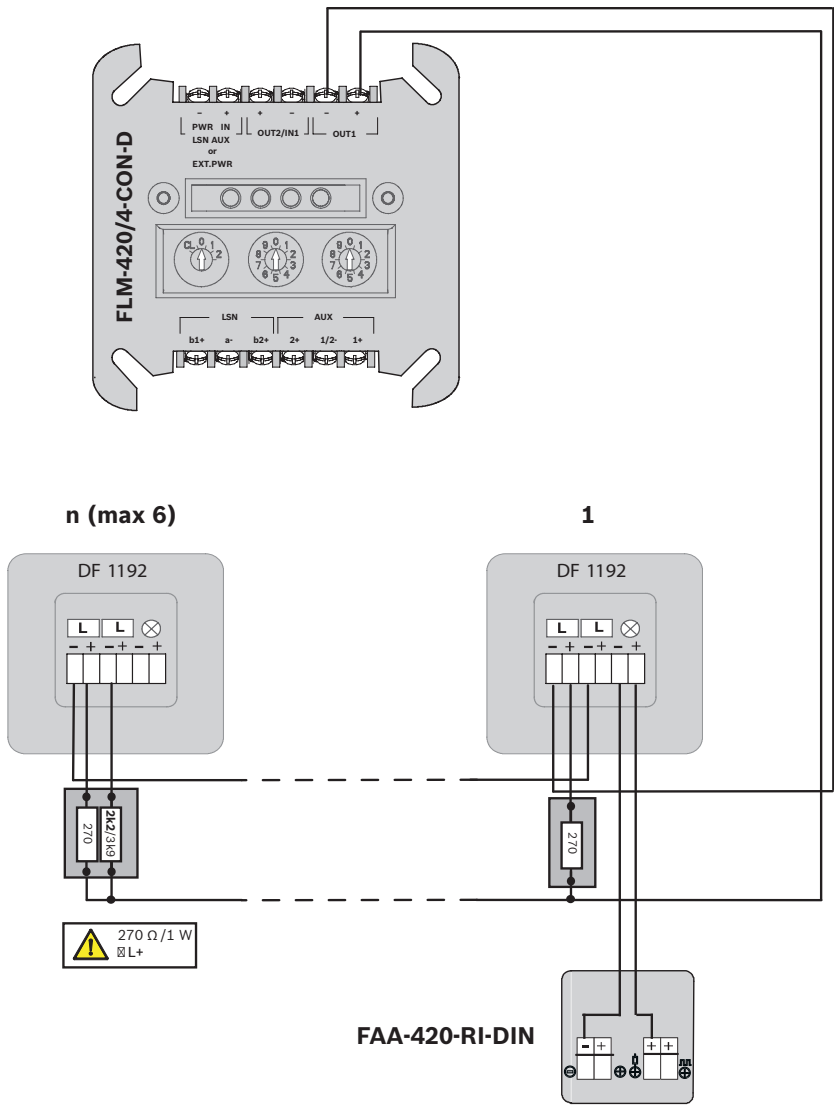






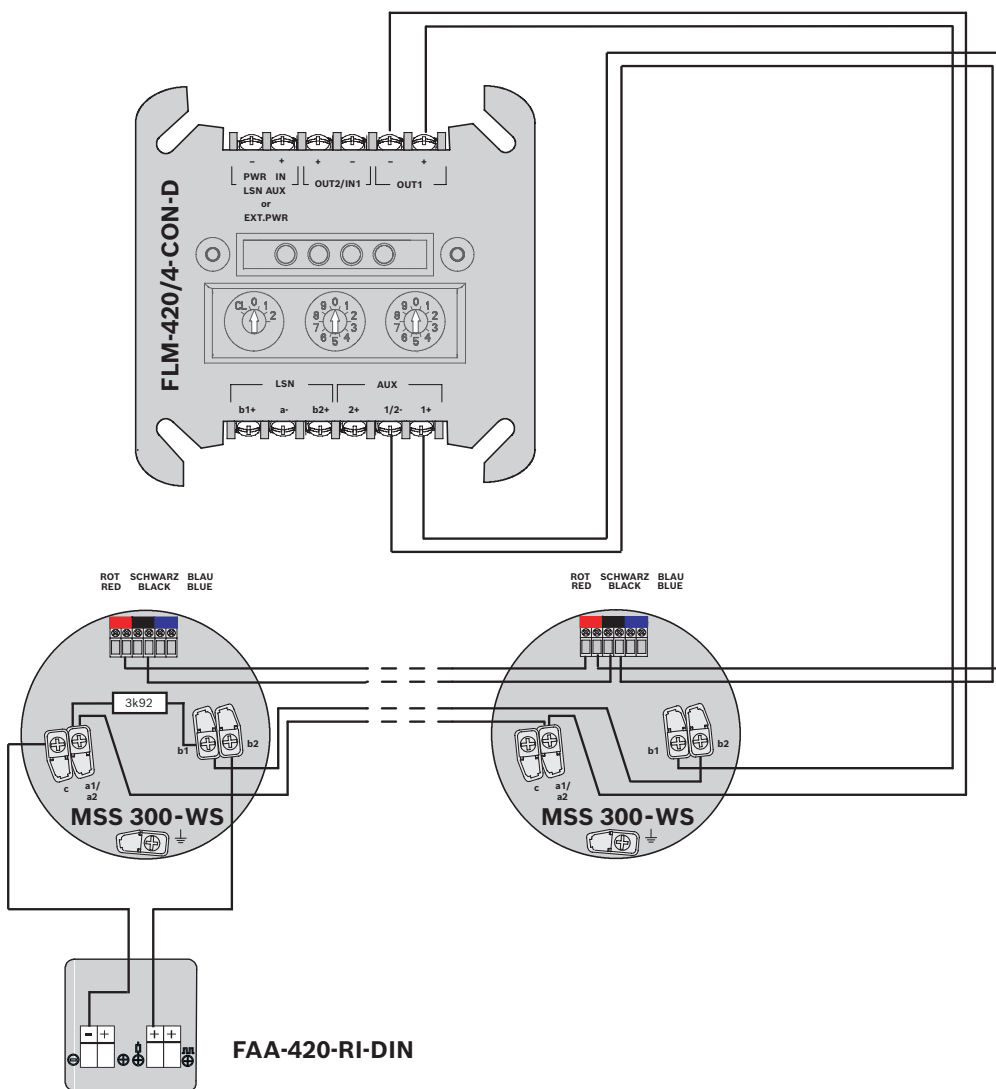


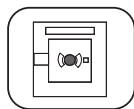
DF 1192



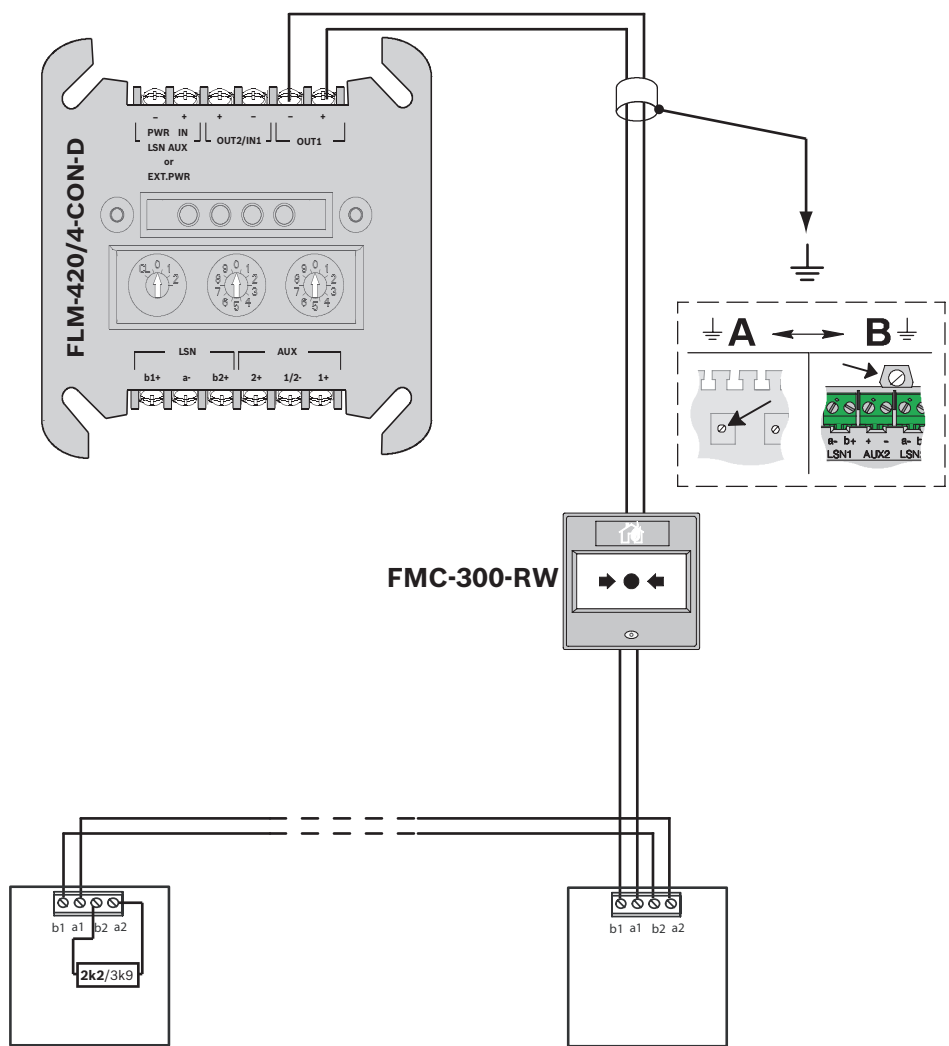
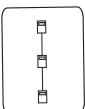


MSS 300-WS

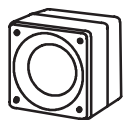




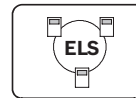
FMC-300-RW



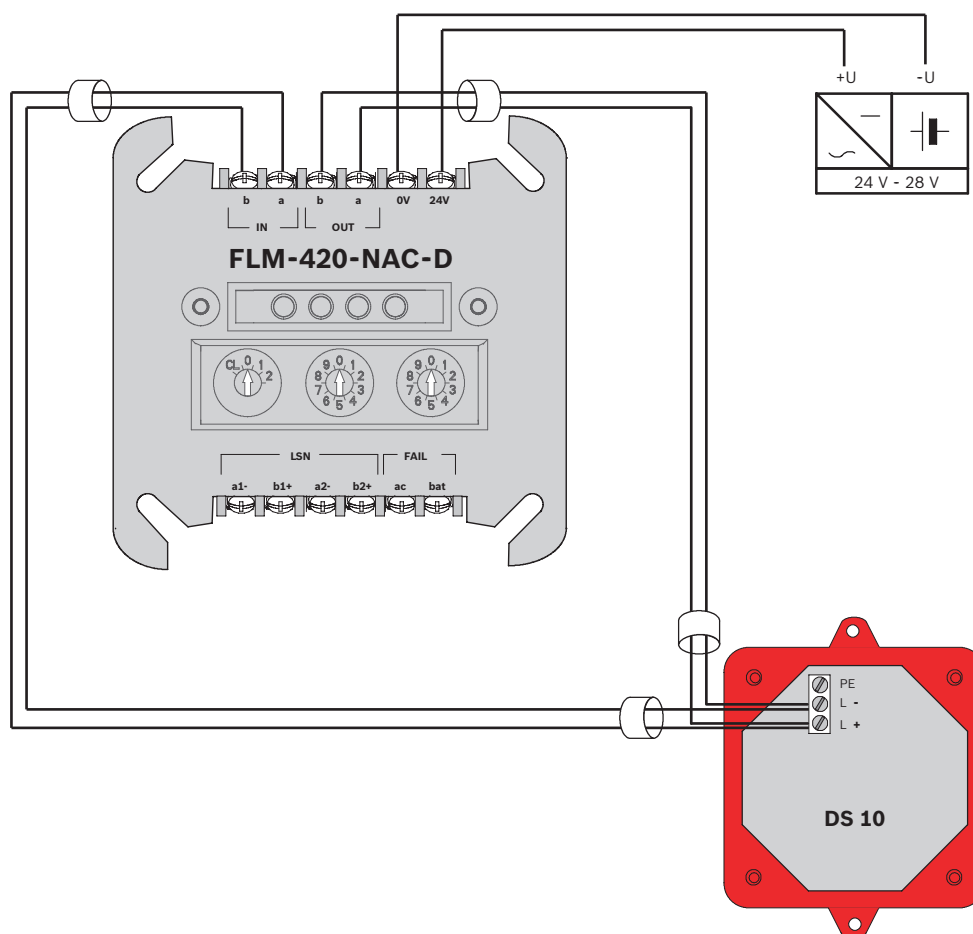
3.4.2 FLM-420-NAC-D/S

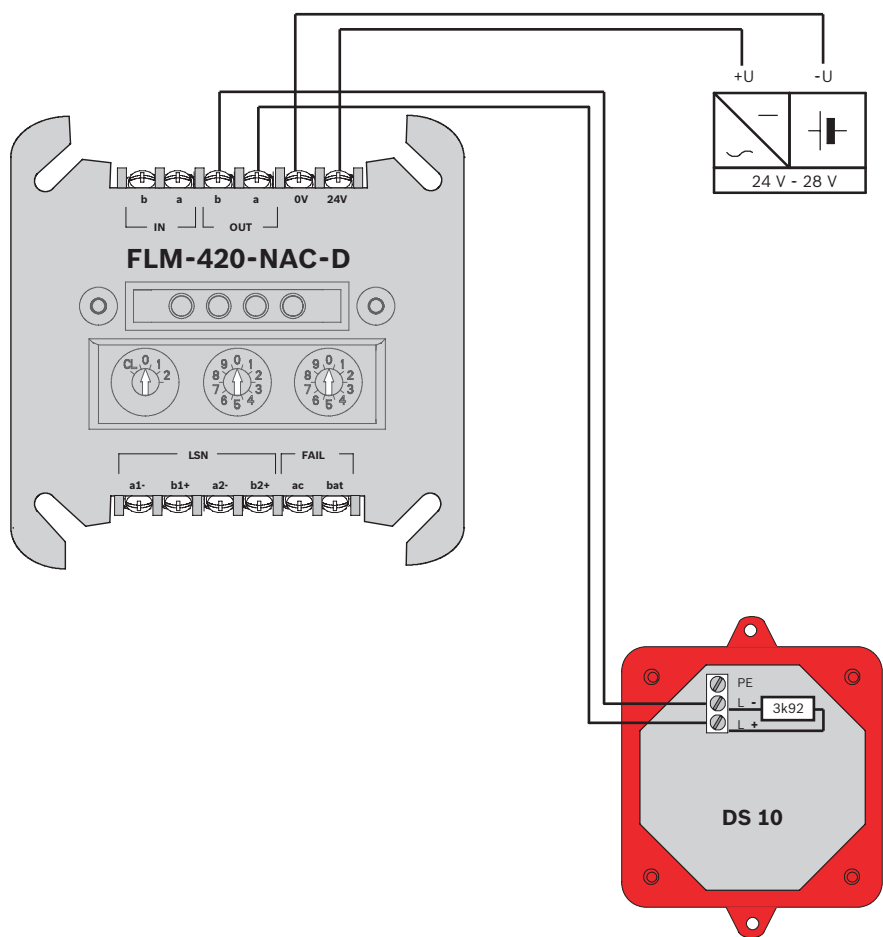
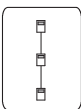


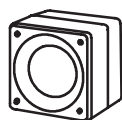
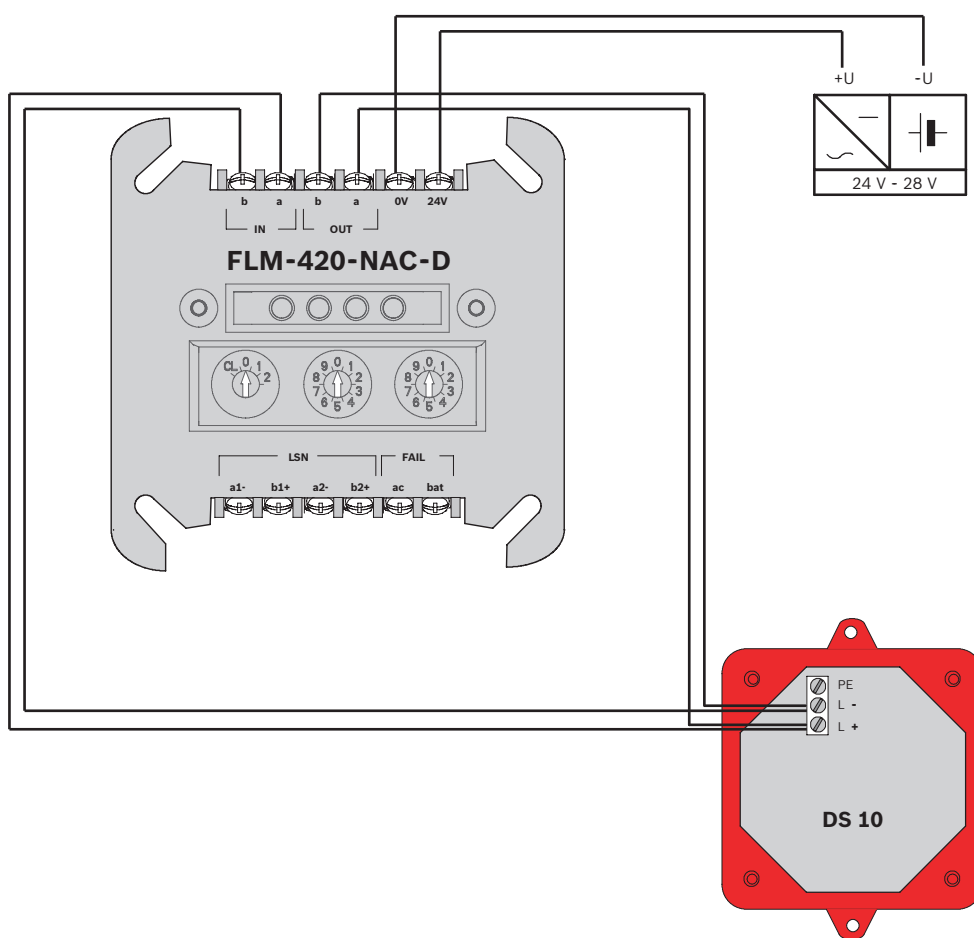
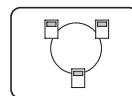
DS 10



VdS 2489

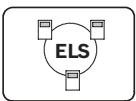




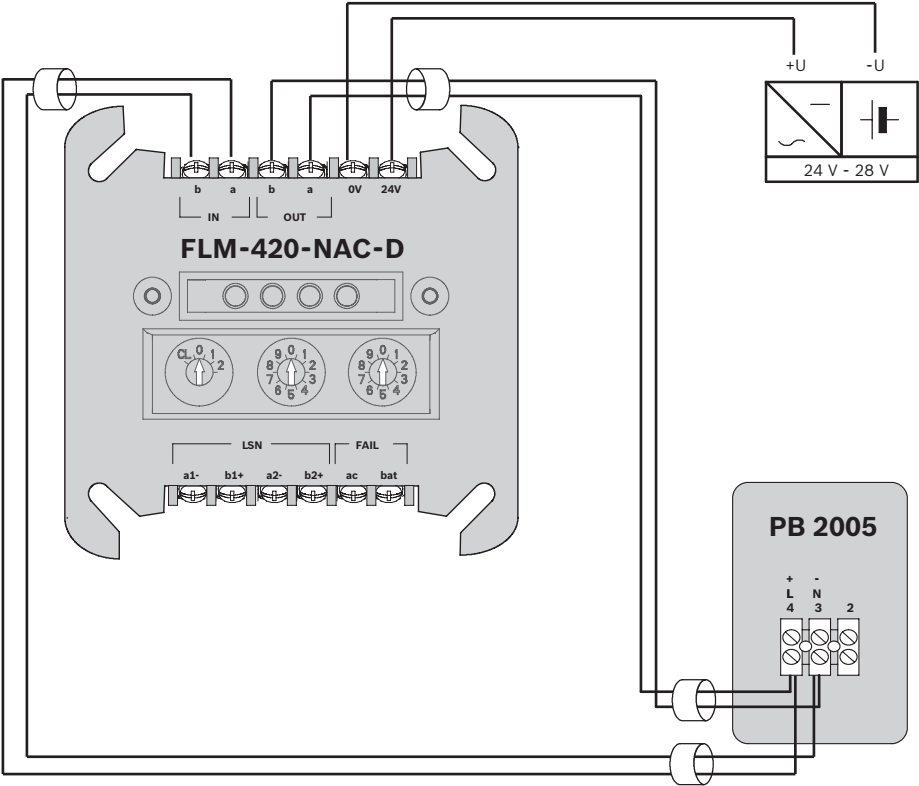
**DS 10**

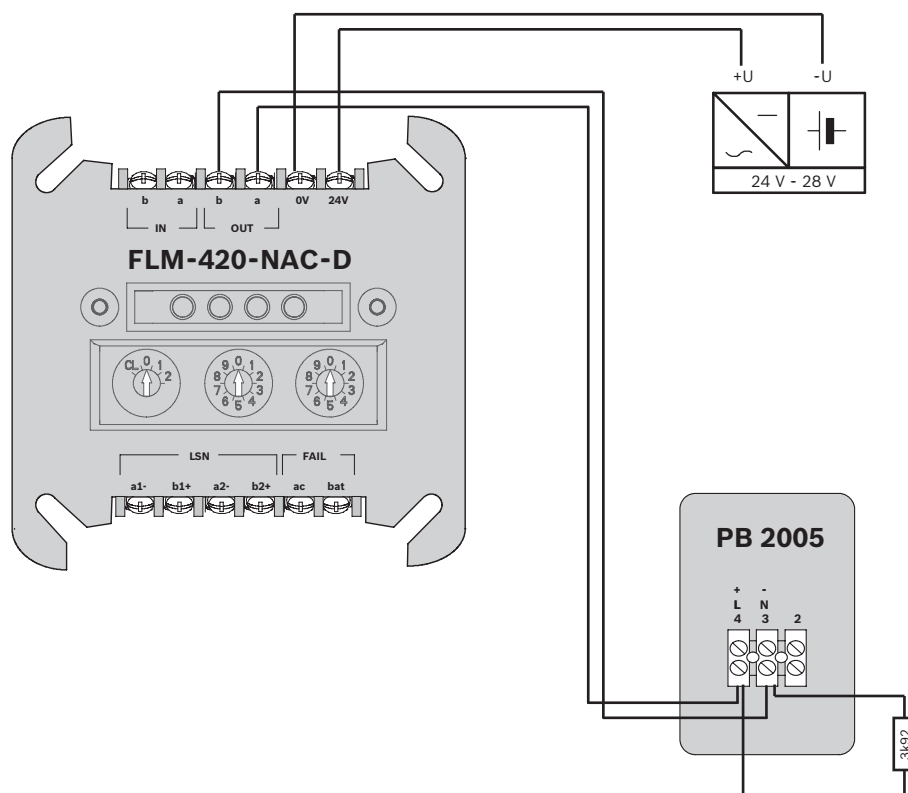
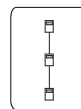


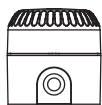
PB 2005



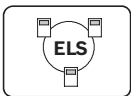
VdS 2489



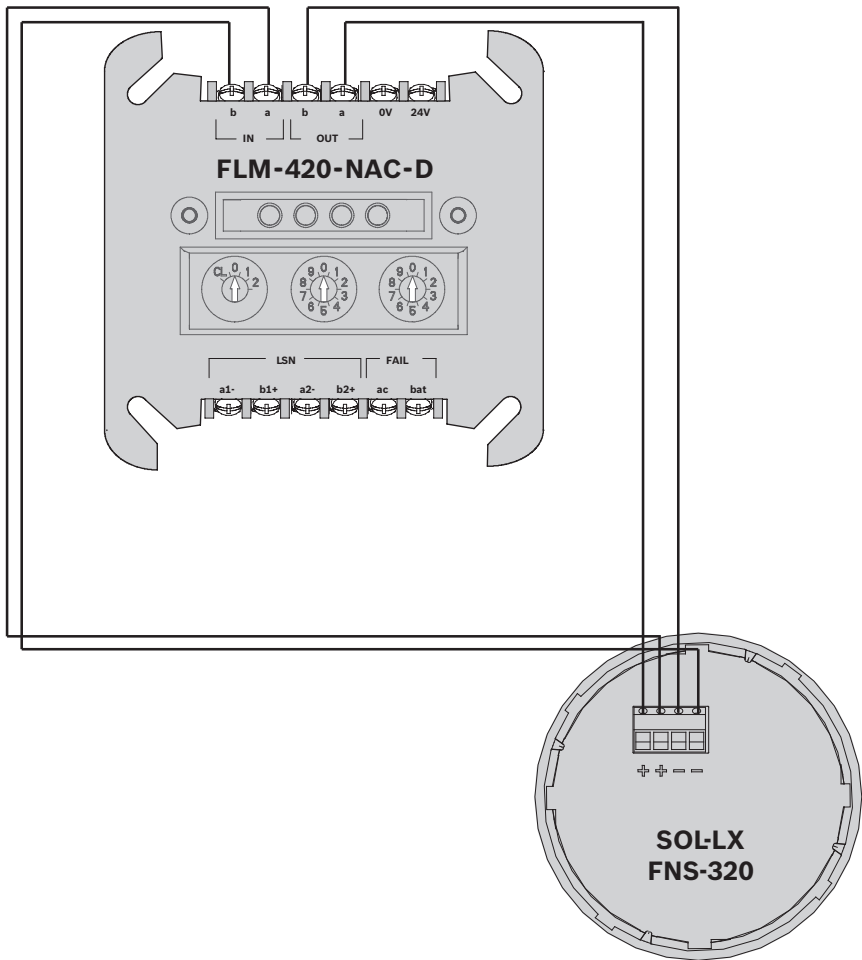
**PB 2005**



**SOL-LX
FNS-320**

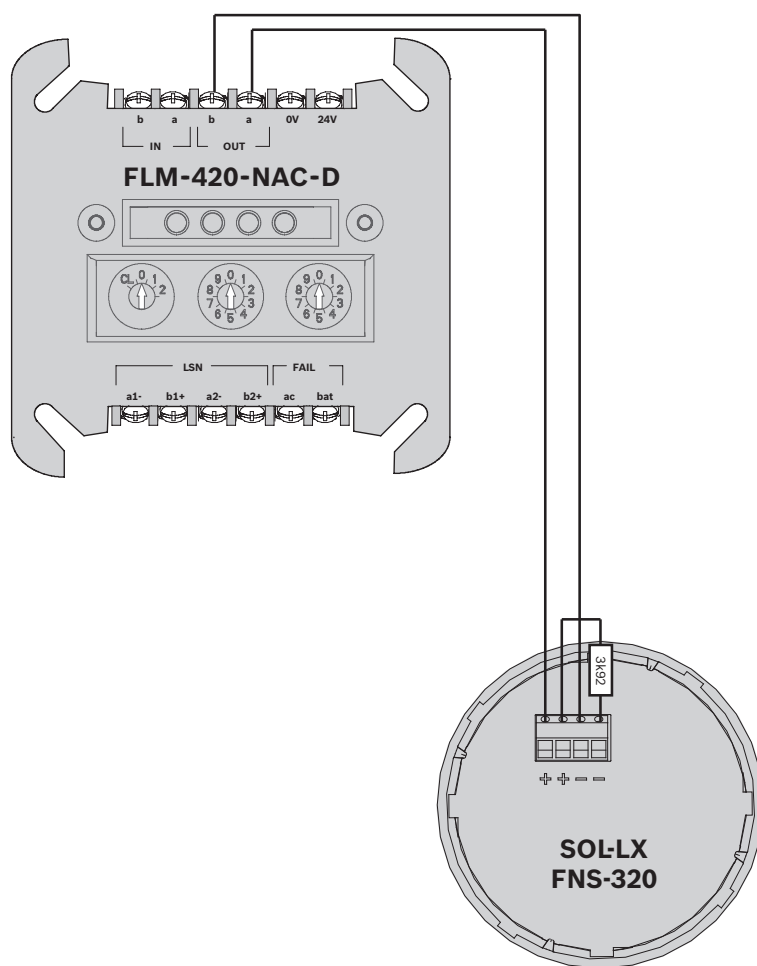
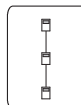


VdS 2489



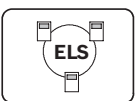


**SOL-LX
FNS-320**

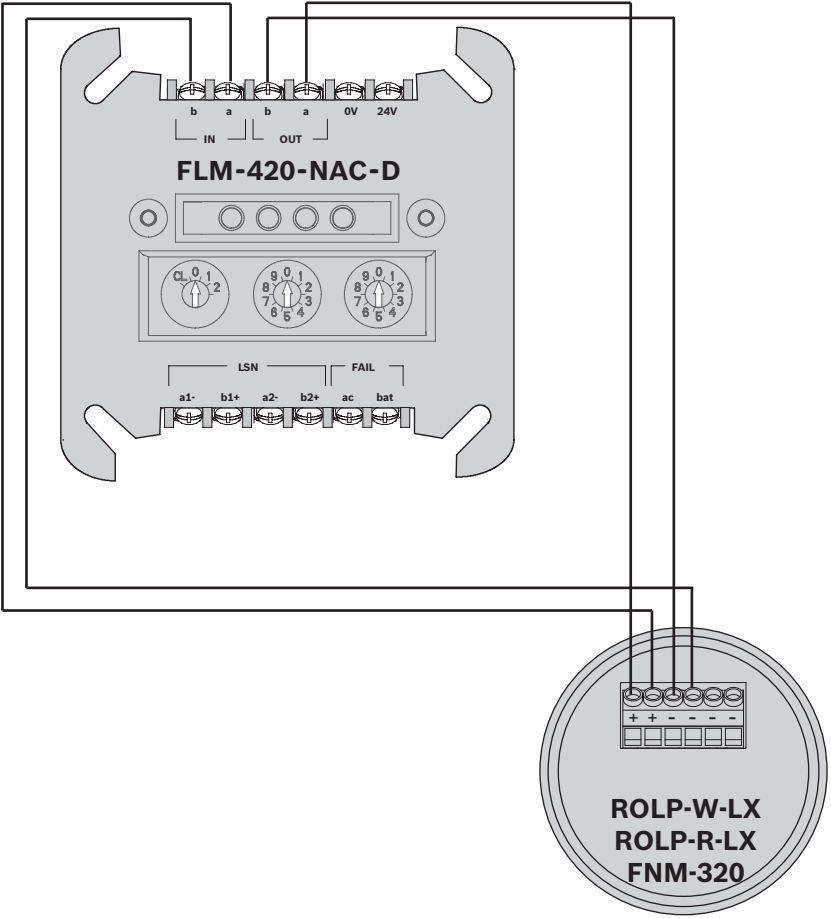




ROLP-W-LX
ROLP-R-LX
FNM-320

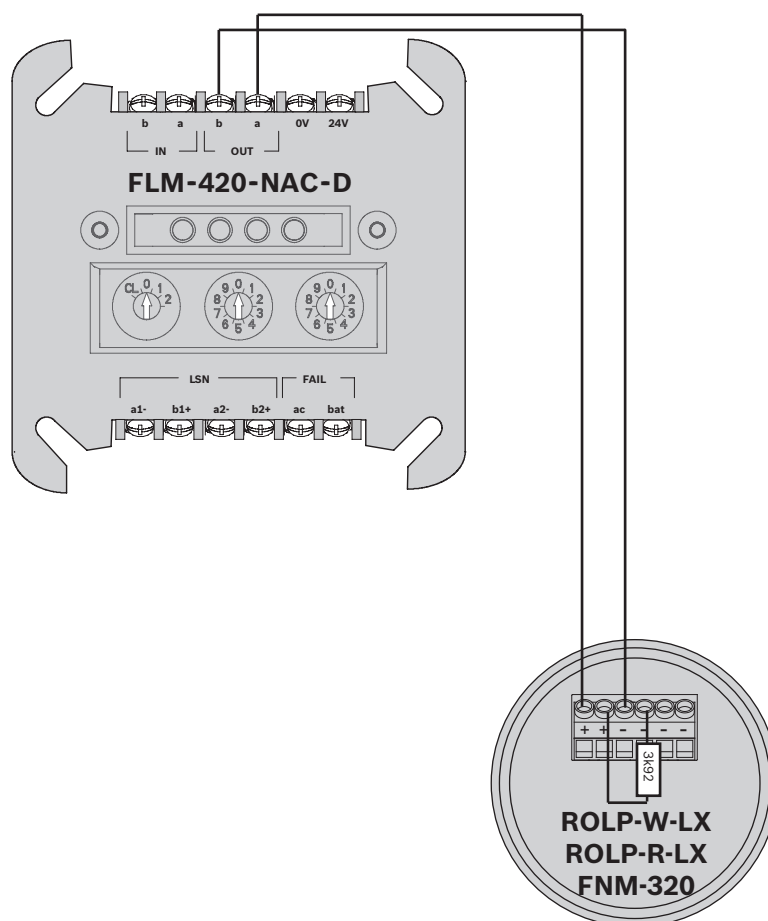
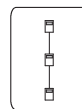


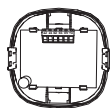
VdS 2489



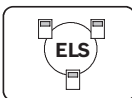


ROLP-W-LX
ROLP-R-LX
FNM-320

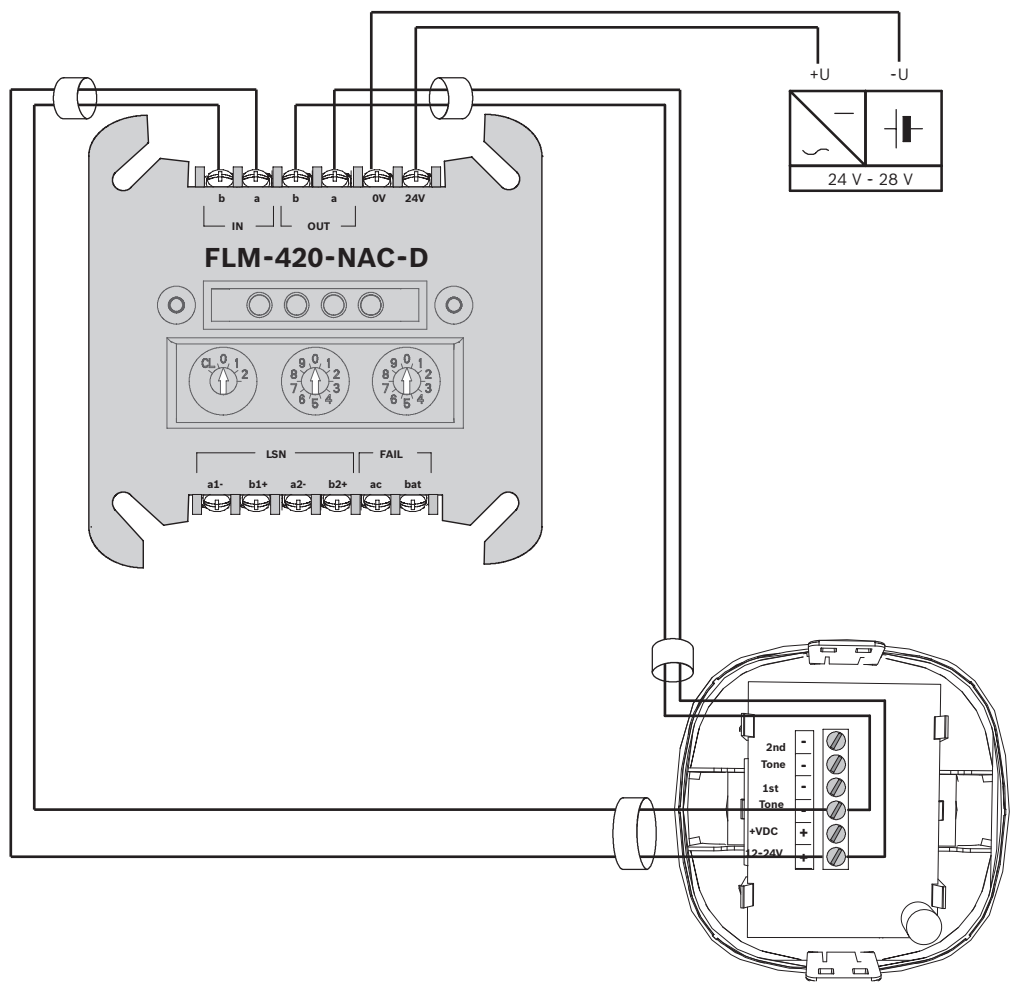


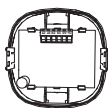
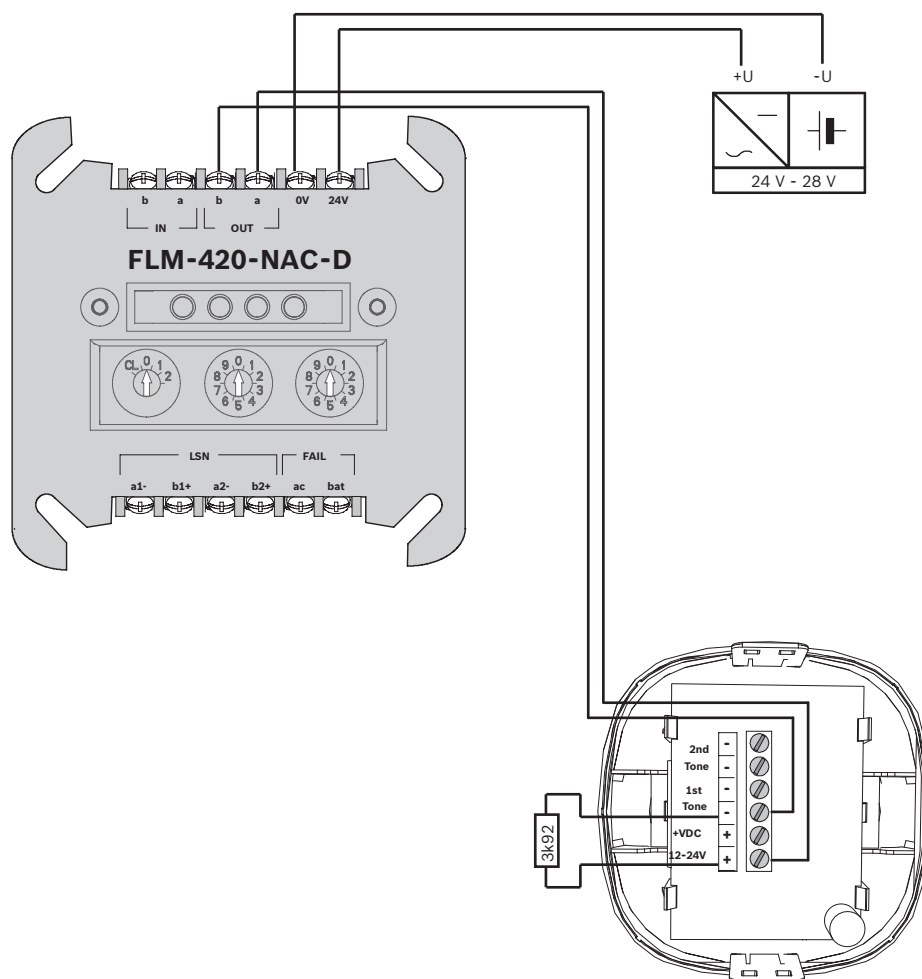
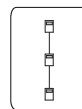


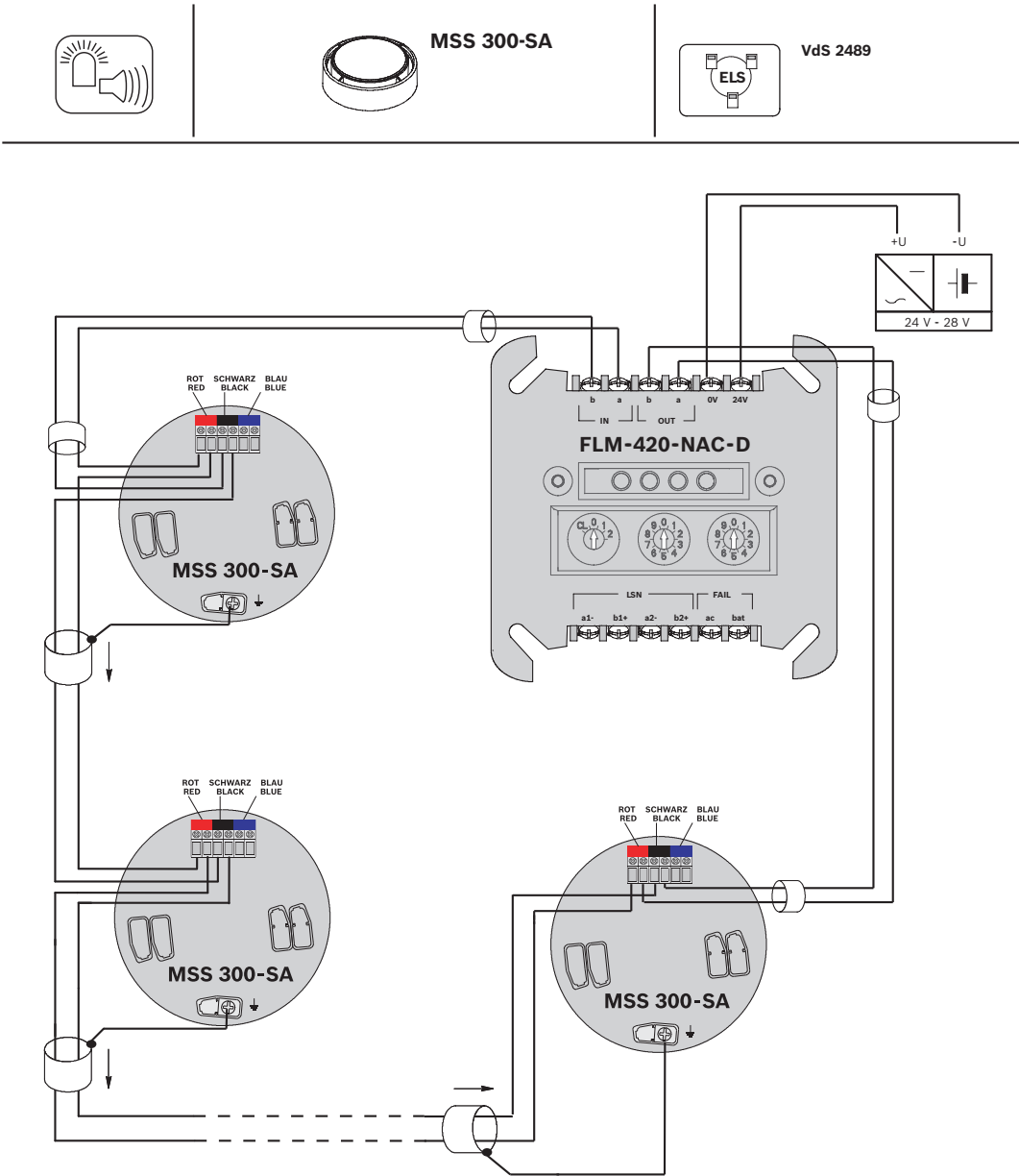
FNM-320V-A / -B



VdS 2489

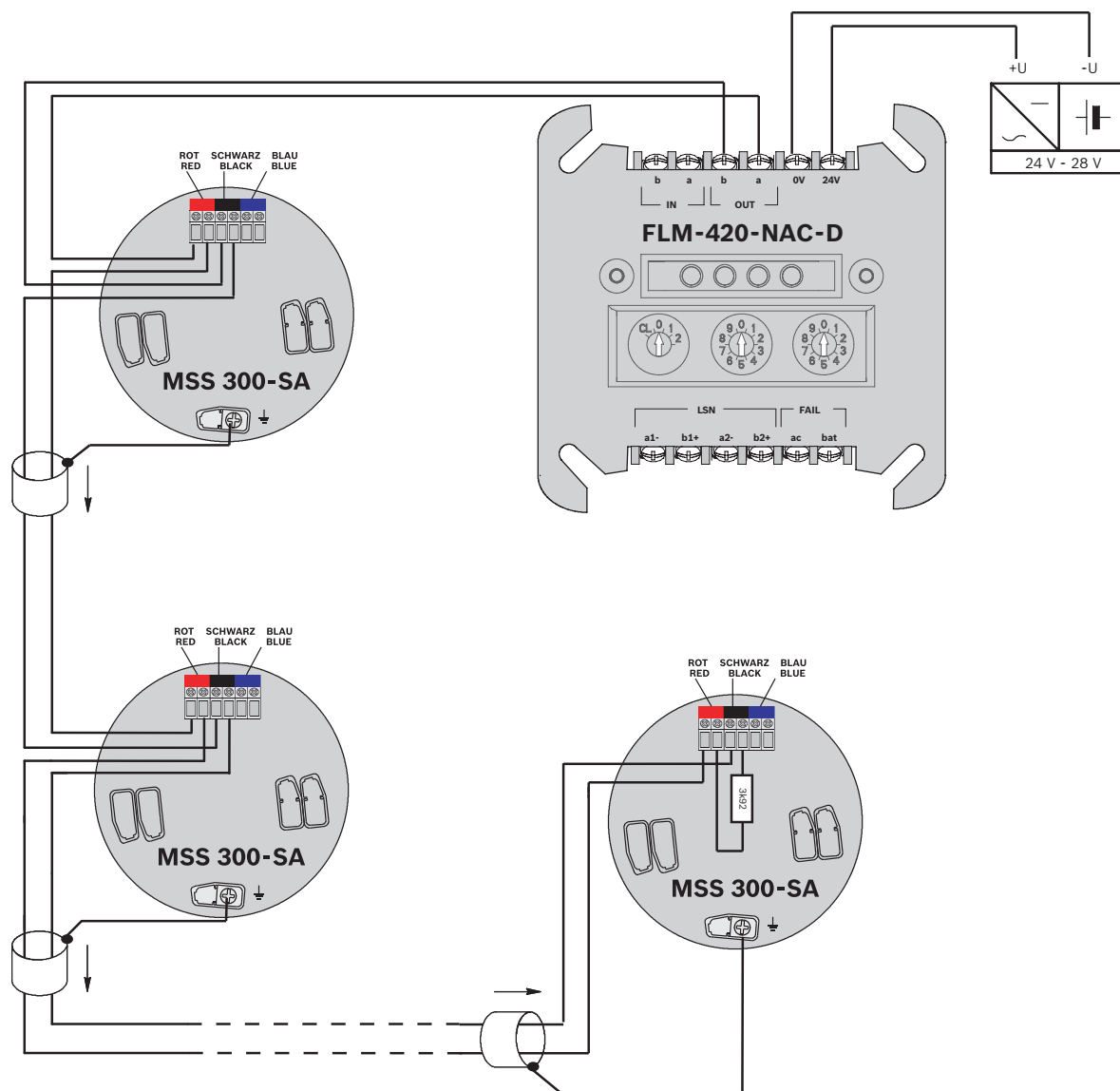
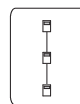


**FNM-320V-A / -B**





MSS 300-SA

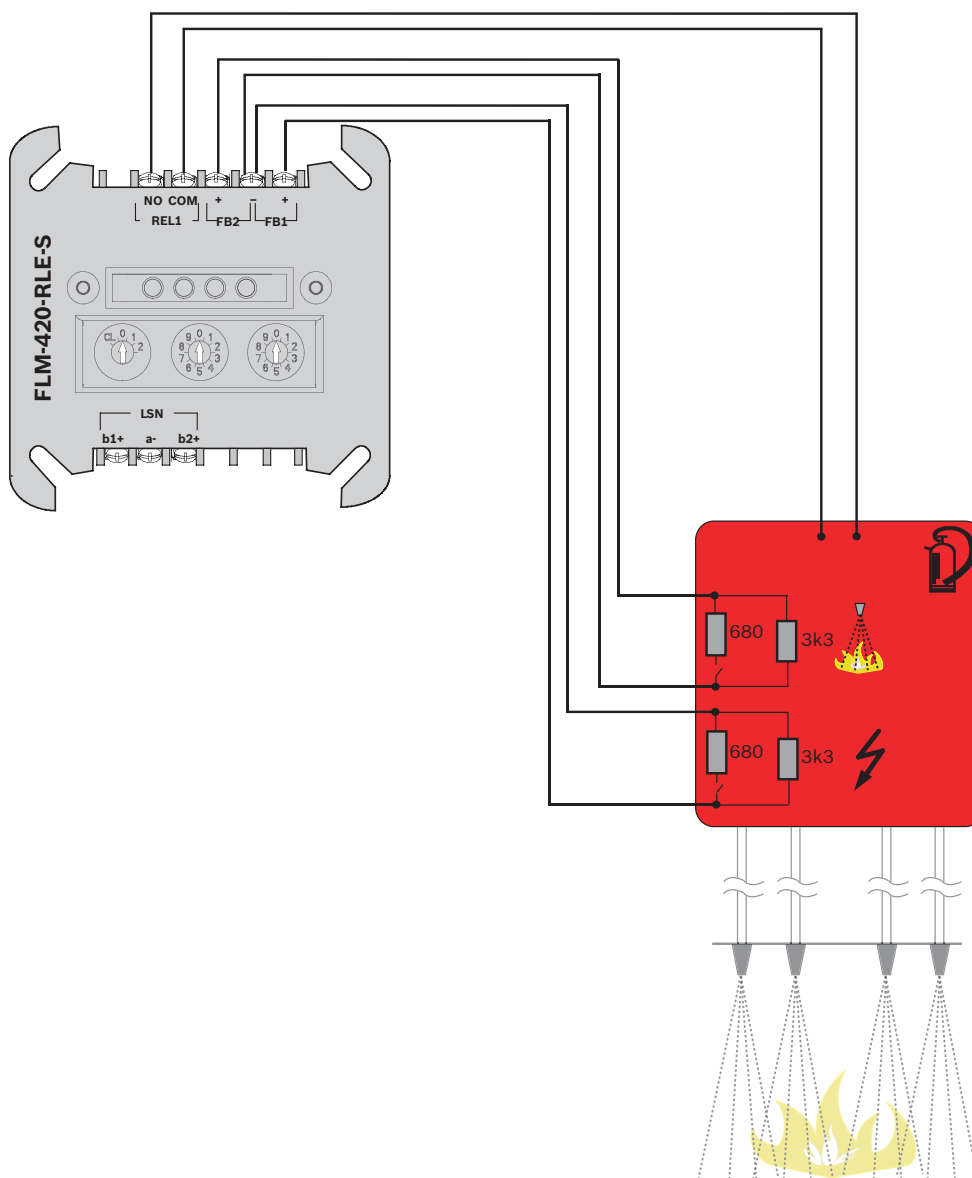


3.4.3

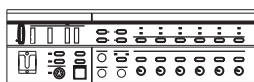
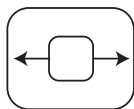
FLM-420-RLE-S



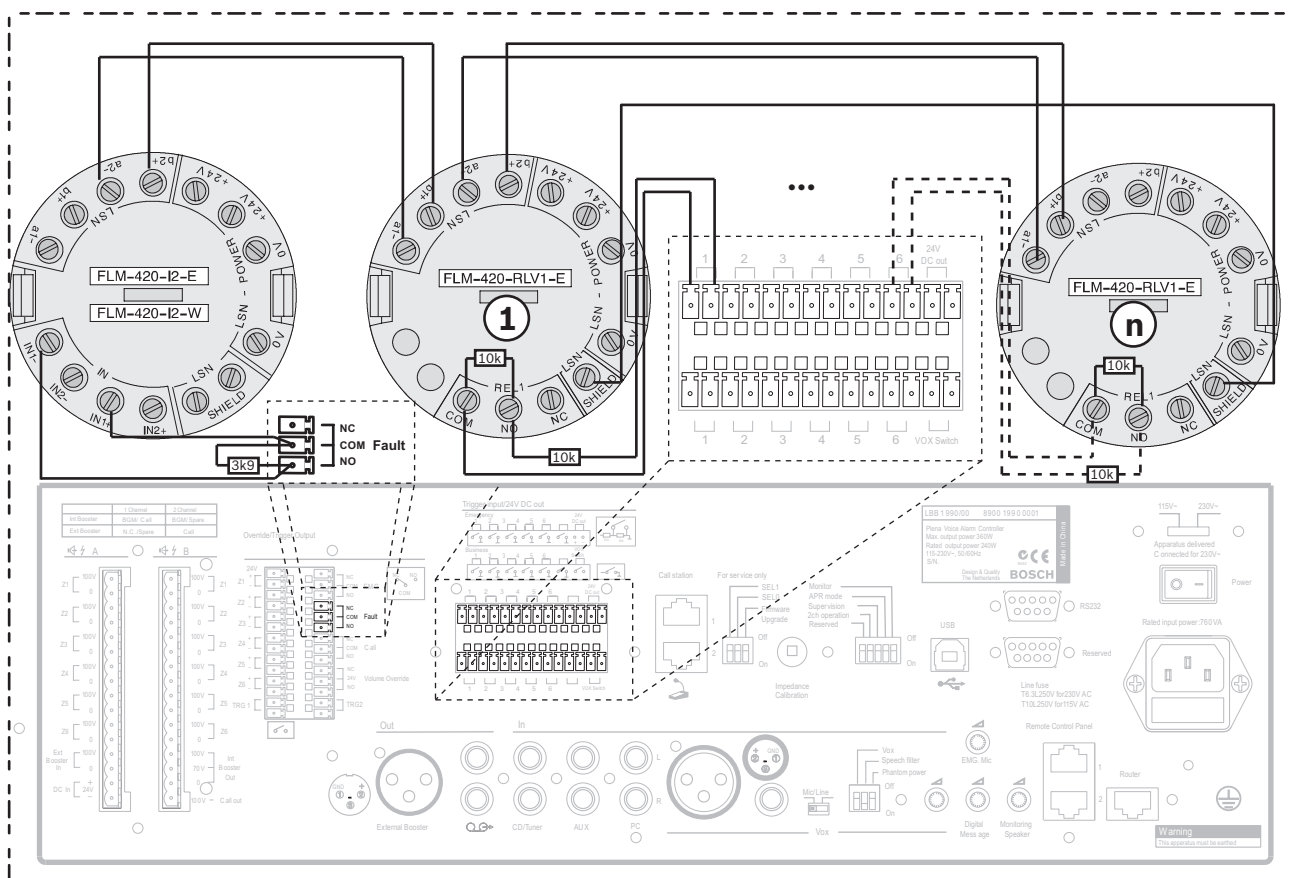
VdS 2496:2005-09



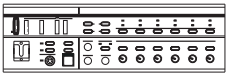
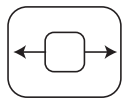
3.4.4 FLM-420-RLV1-E



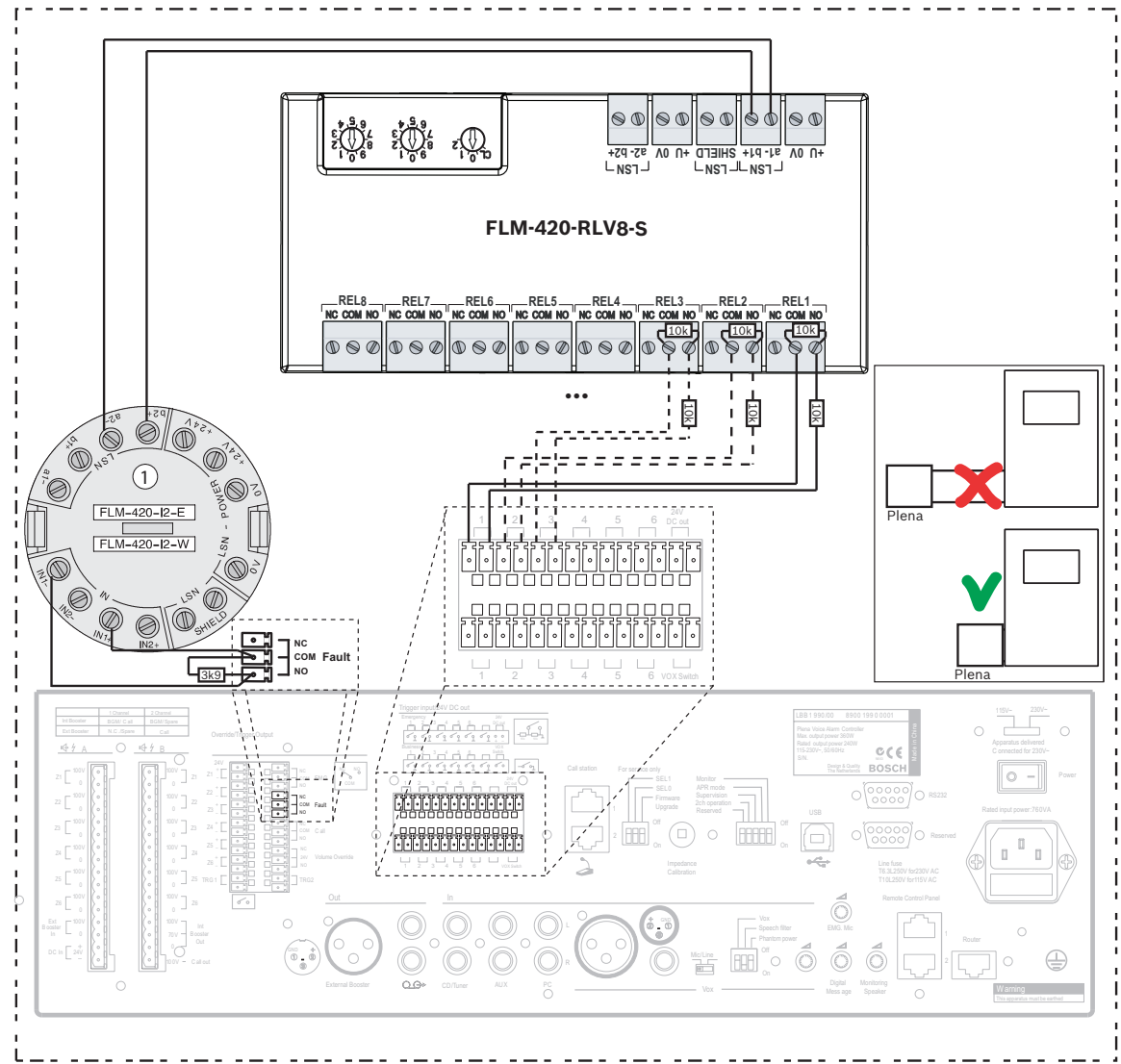
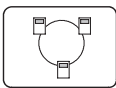
Plena



3.4.5 FLM-420-RLV8-S

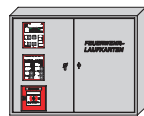


Plena



3.4.6

FMF-ADP-FBF/FMF-ADP-TTY



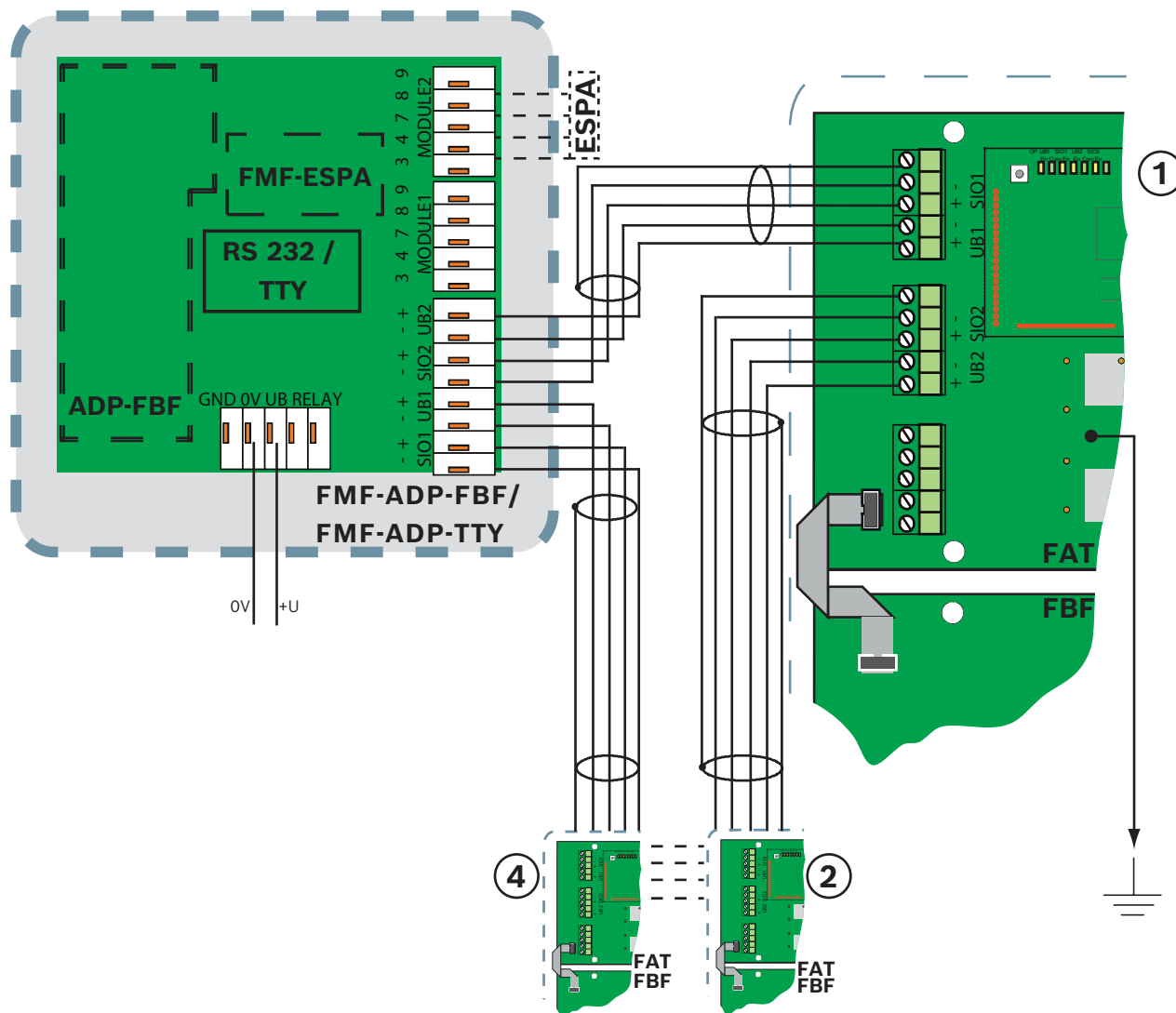
FAT4000 FBF4000 ADP4000

FMF-FAT FMF-FBF-FAT

FMF-FIBS-A4/-A3

FMF-ADP

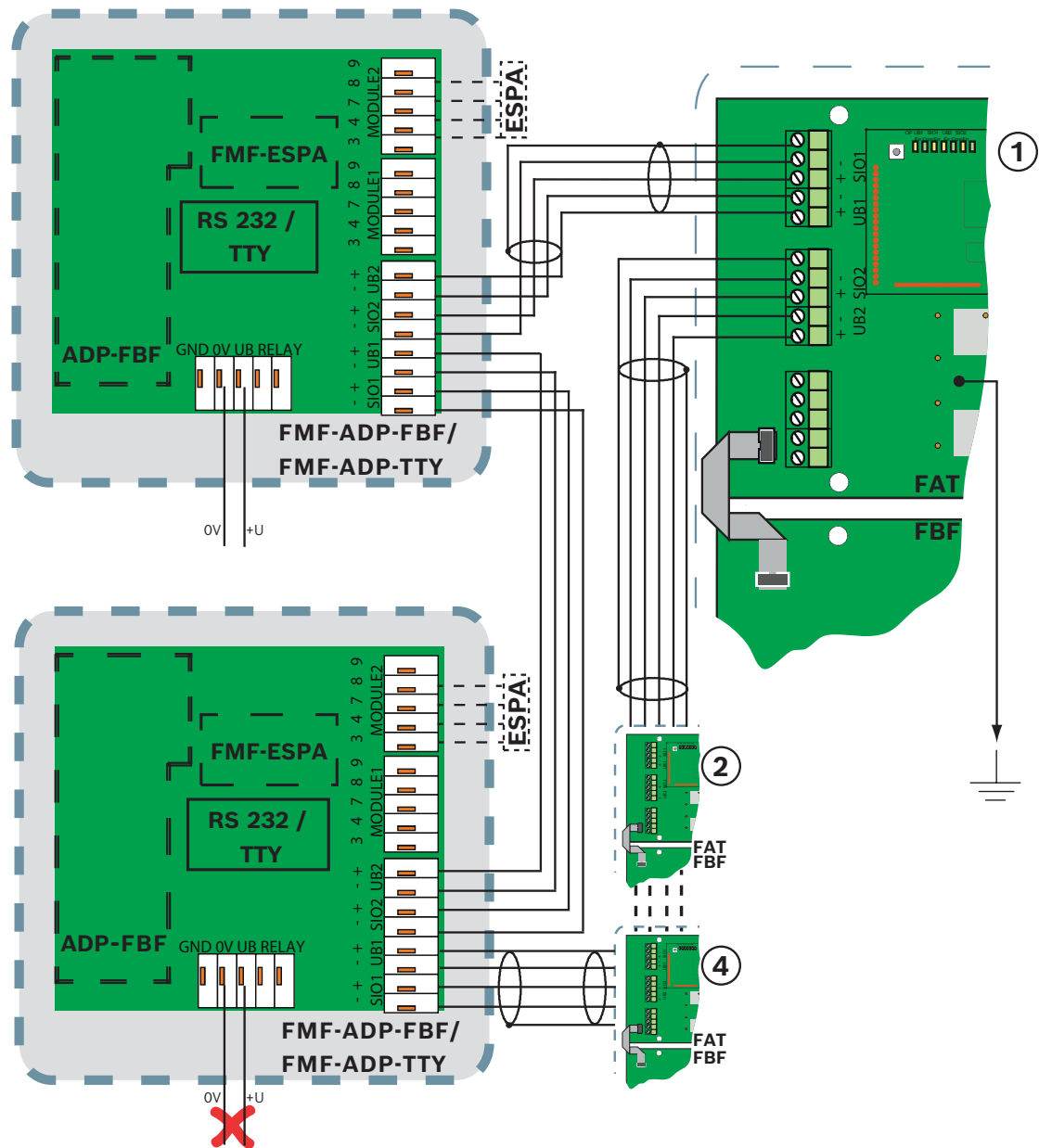
ELS VdS 2489





FAT4000 FBF4000 ADP4000
FMF-FAT FMF-FBF-FAT
FMF-FIBS-A4/-A3
FMF-ADP

ELS VdS 2489



3.5

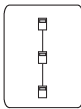
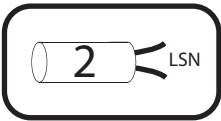
EOL



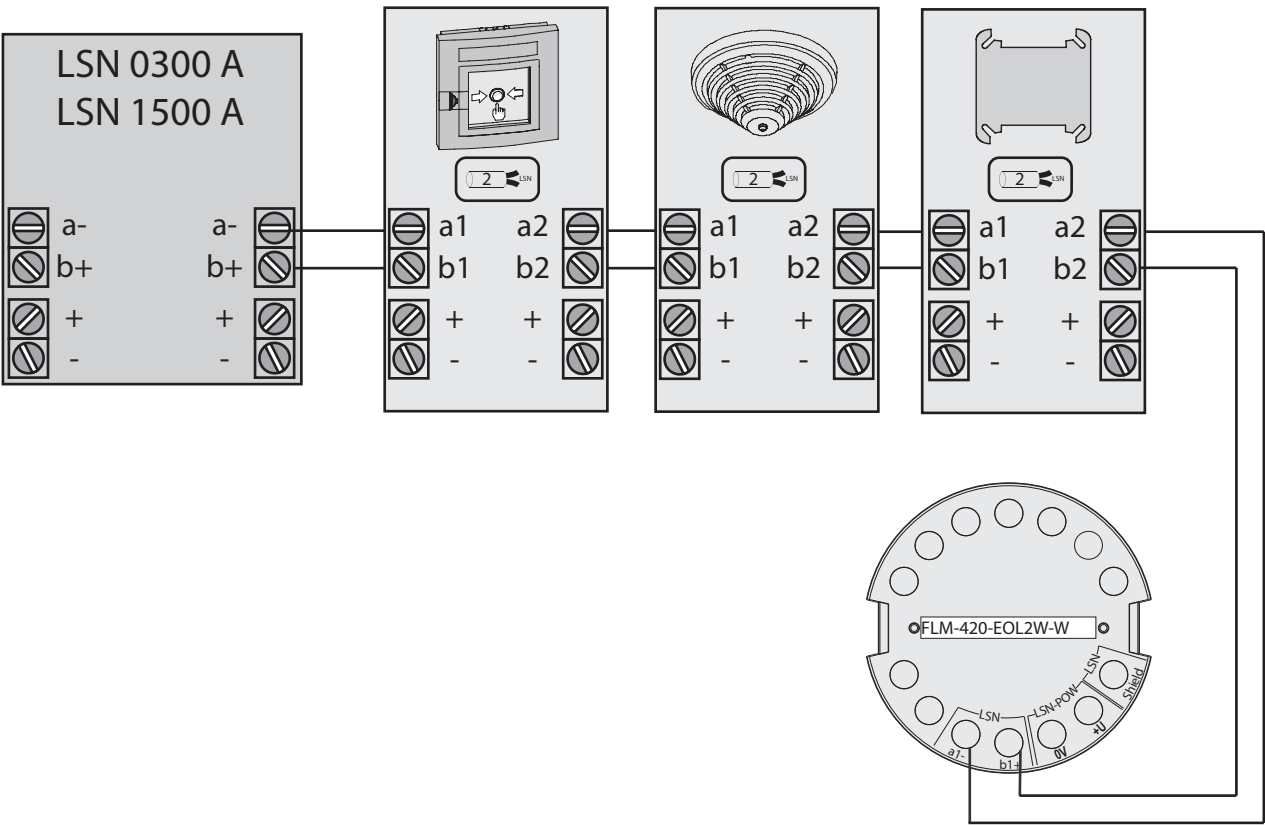
LSN 0300 A, pagina 158

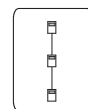
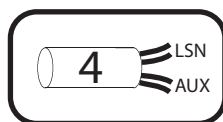
FLM-420/4-CON-S/D, pagina 200

3.5.1 LSN 0300 A



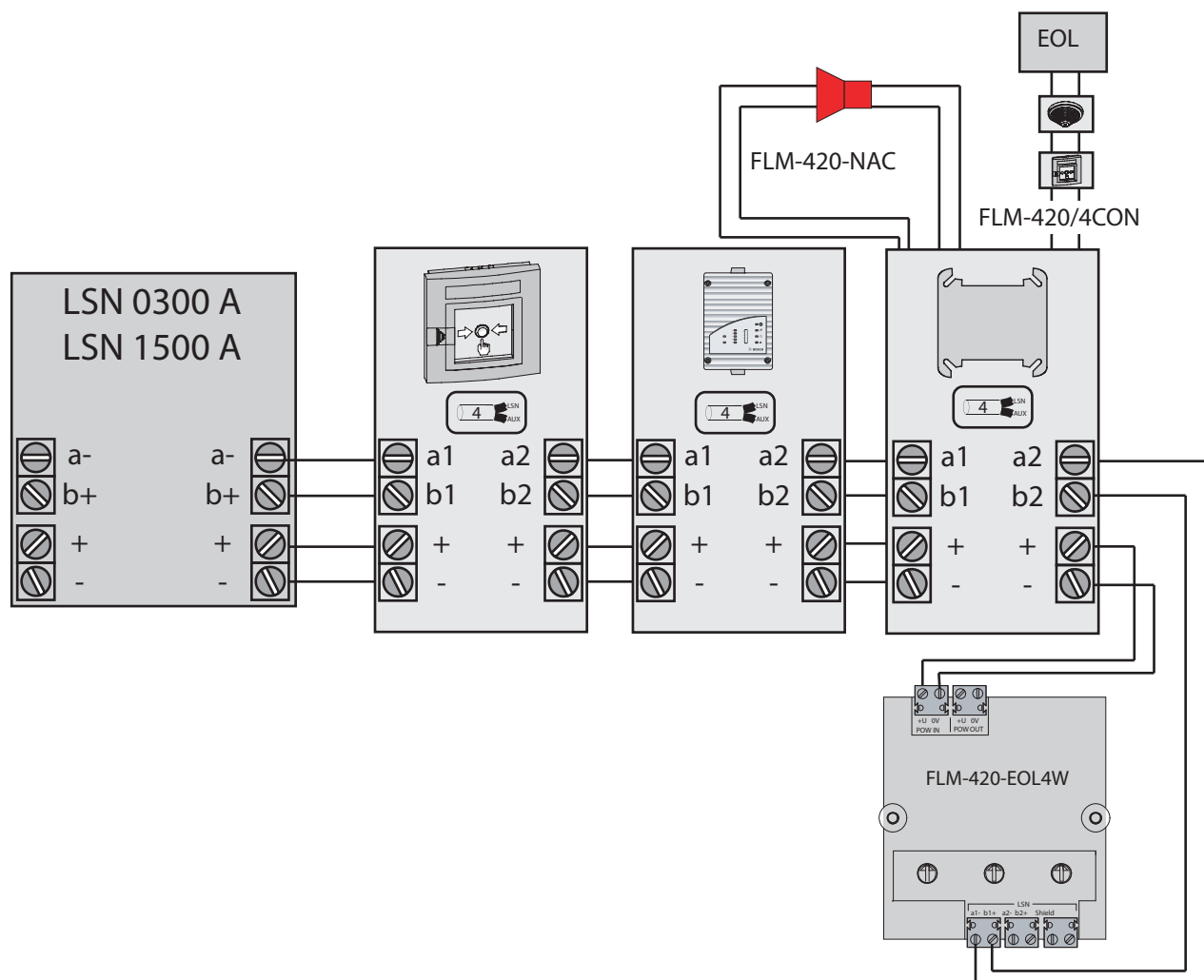
ELS VdS 2489

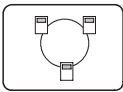




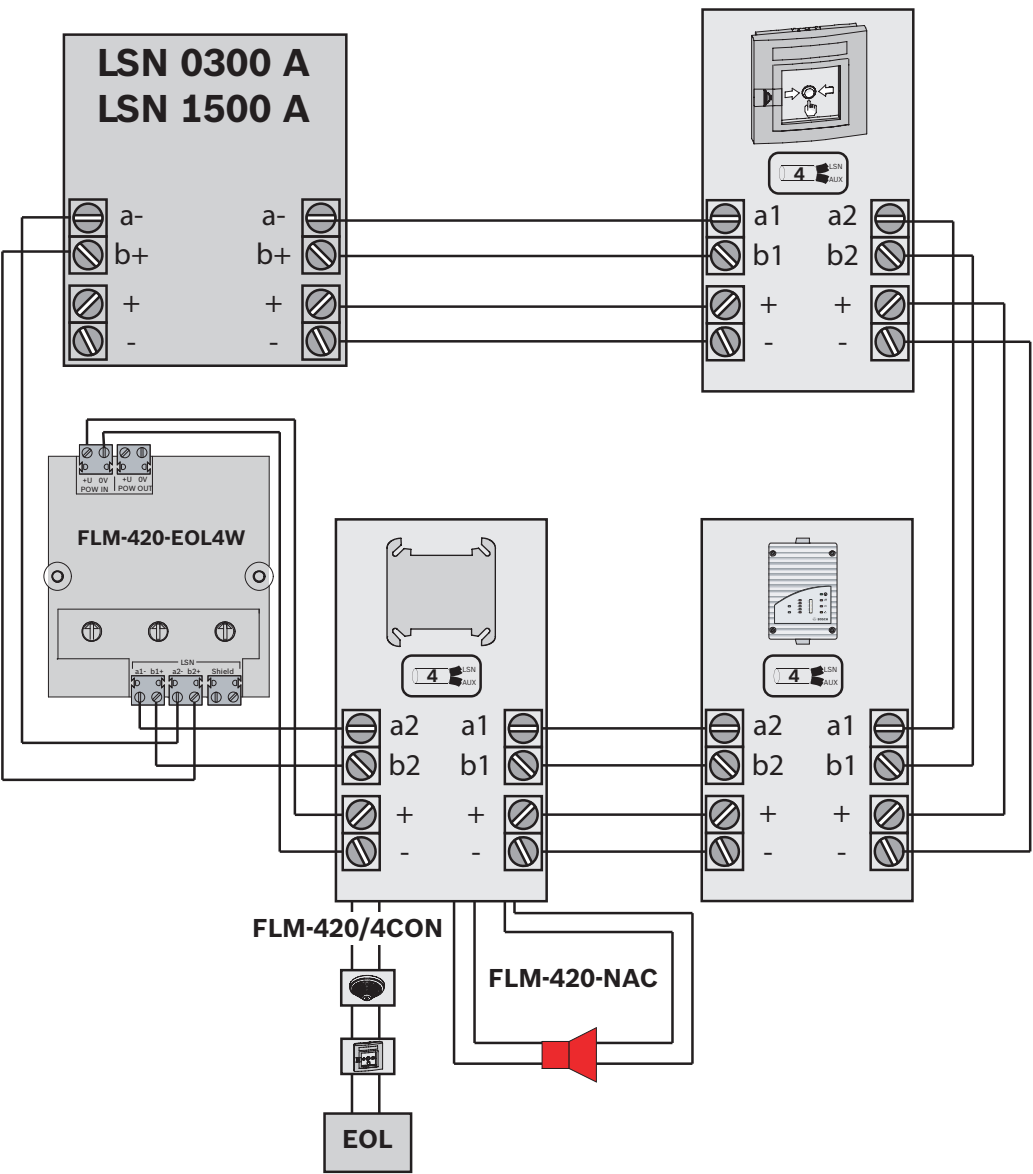
ELS

VdS 2489





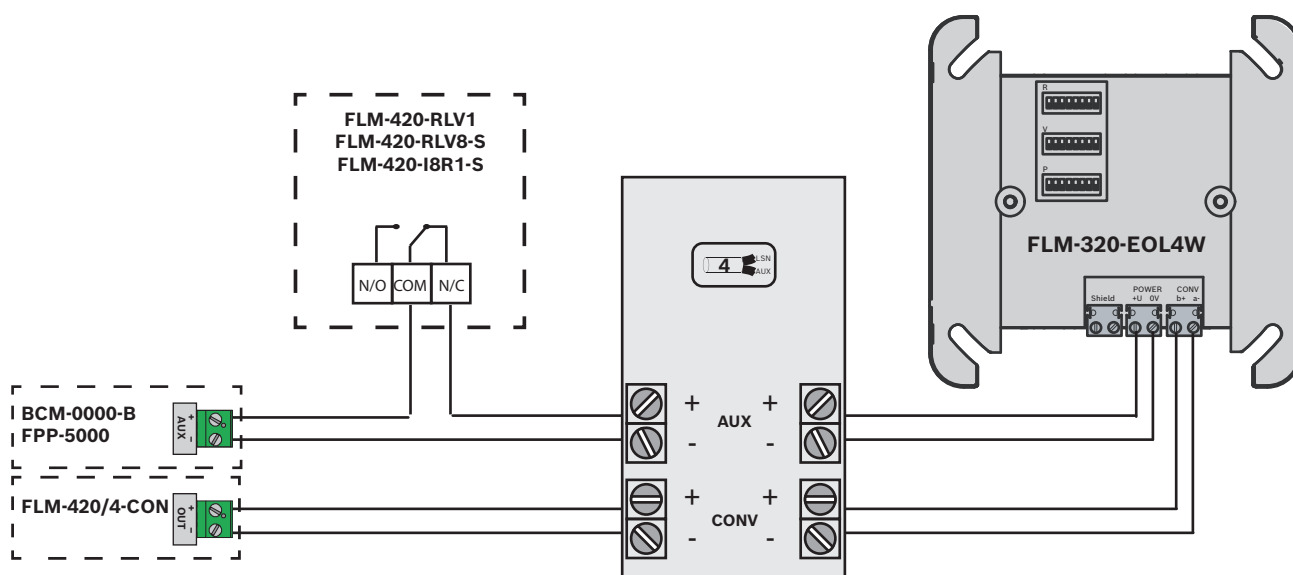
ELS VdS 2489

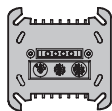
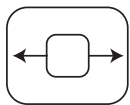




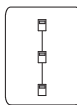
Reset action

ELS VdS 2489

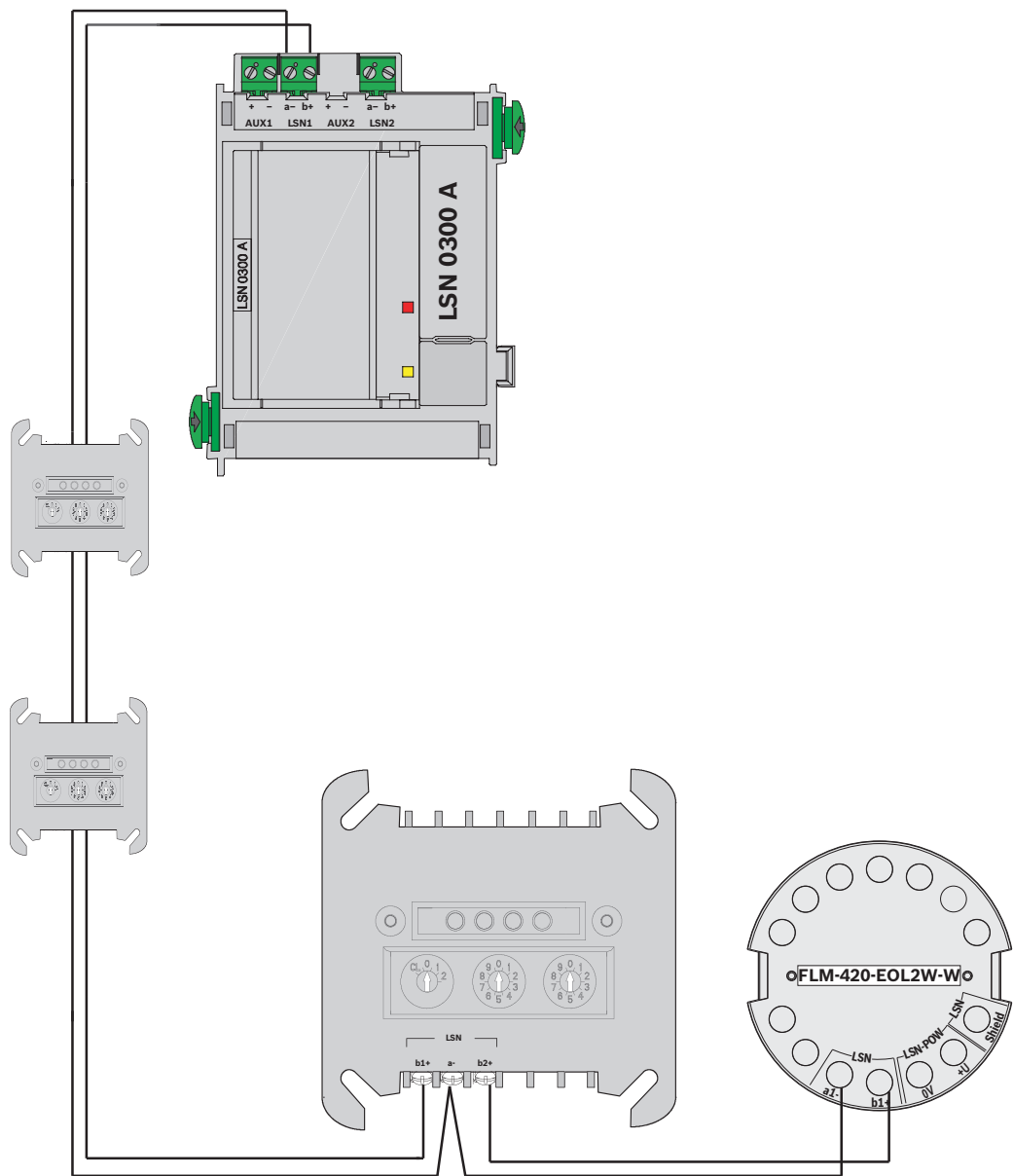


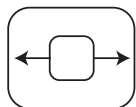


FLM-420-I2-D
FLM-420-O1I1-D
FLM-420-RHV-D/S
FLM-420-RLV1-D

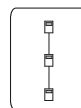


ELS VdS 2489

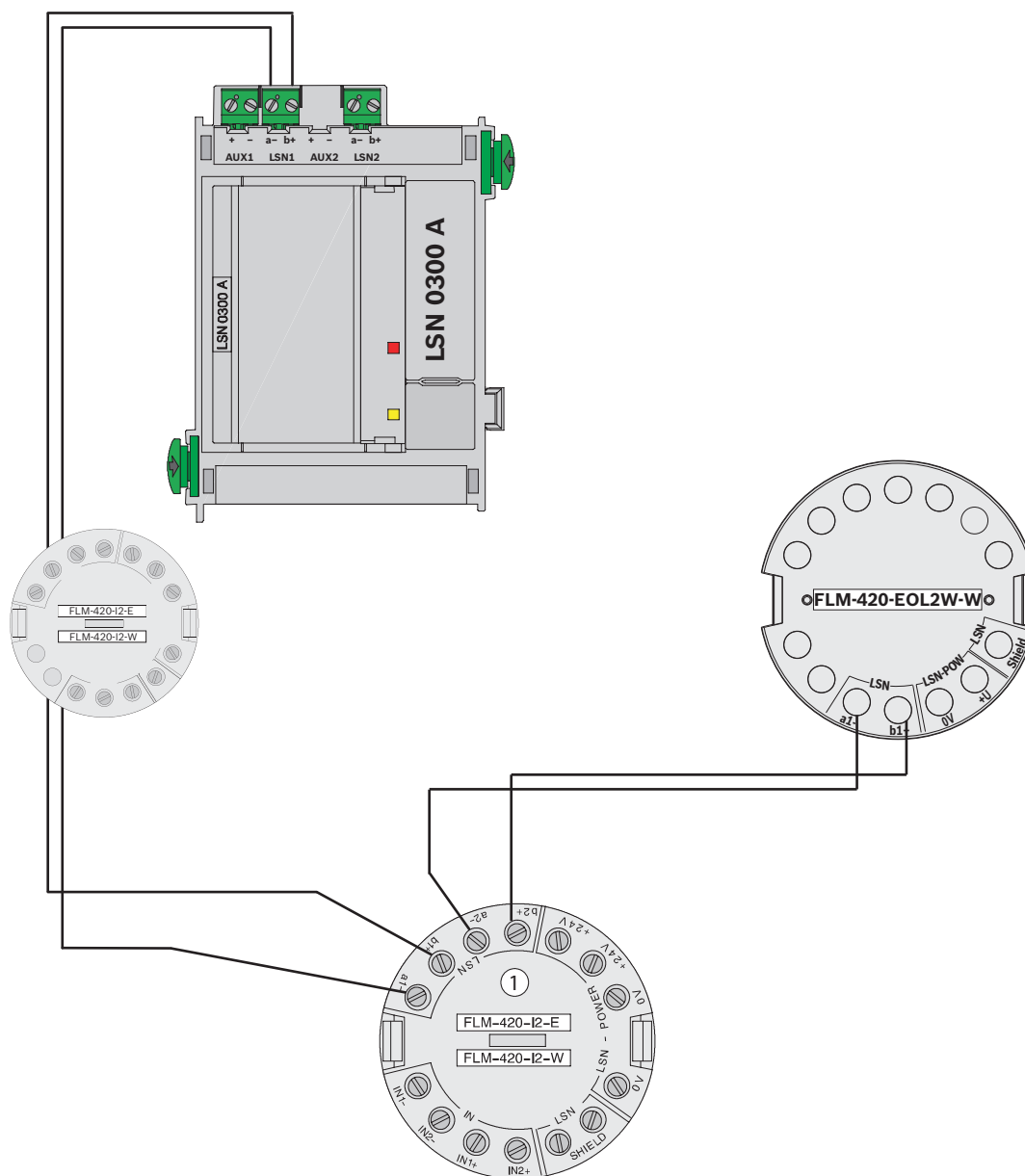


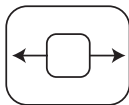


FLM-420-I2-E/W

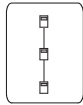


ELS VdS 2489

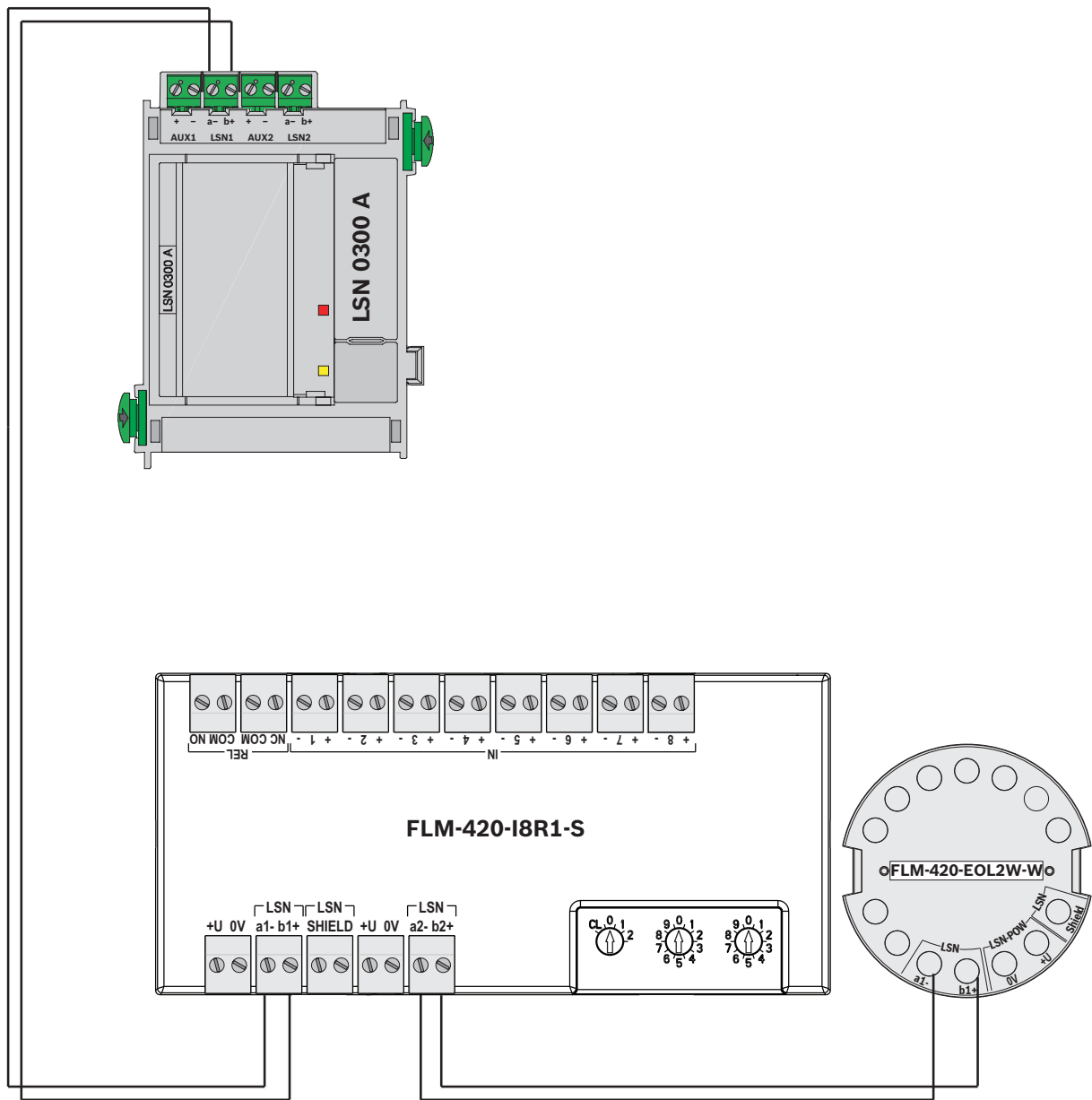


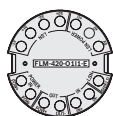
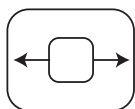
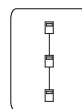
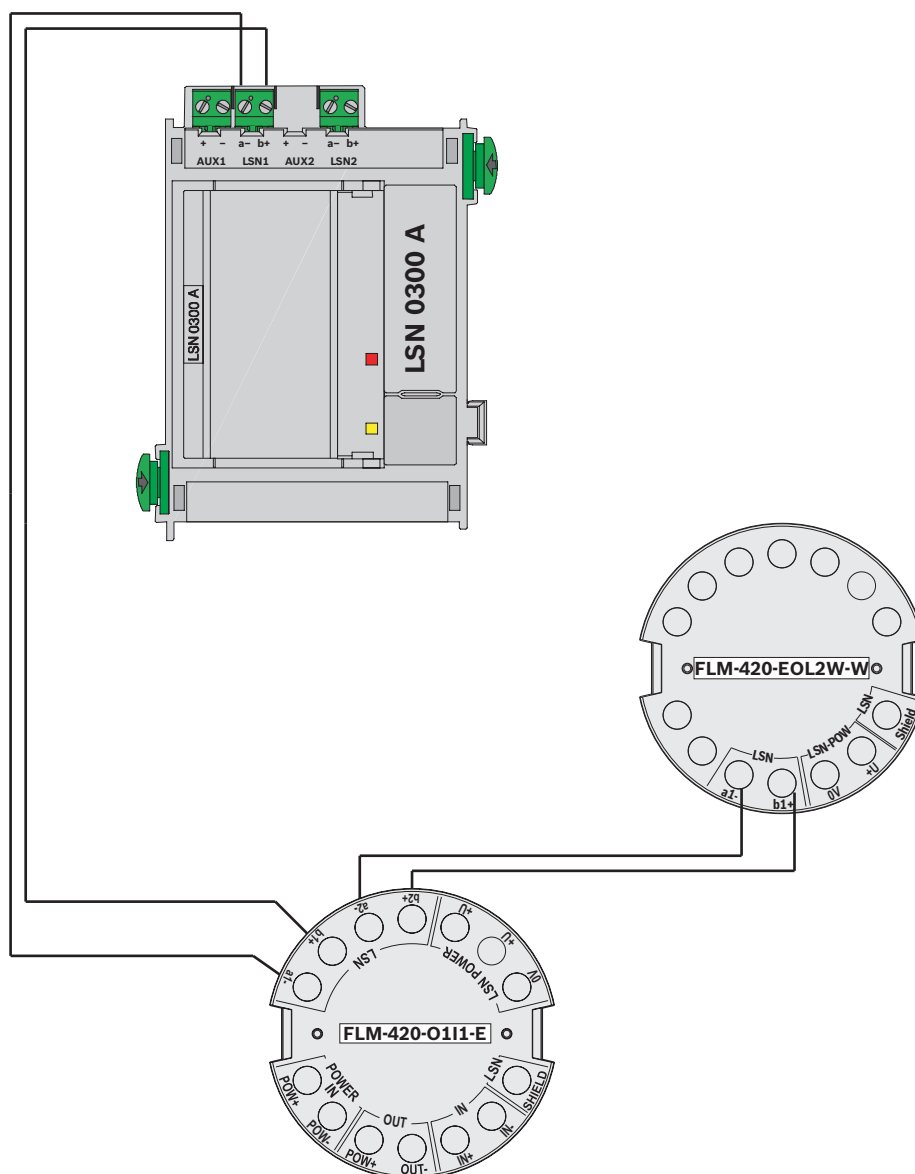


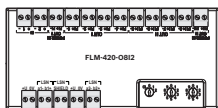
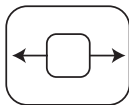
FLM-420-I8R1-S



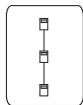
ELS VdS 2489



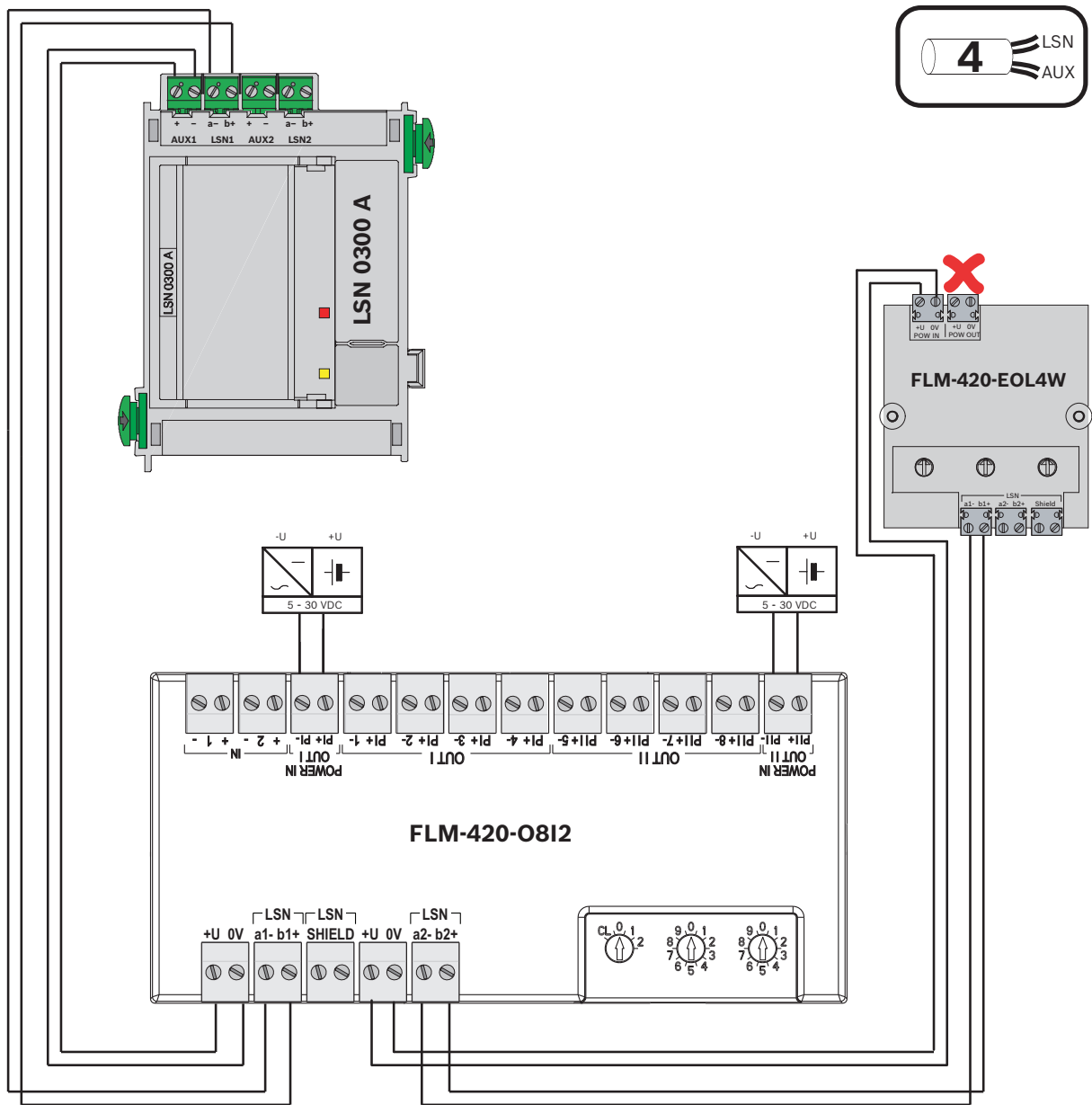
**FLM-420-O1I1-E****ELS VdS 2489**

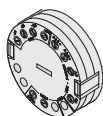
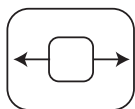


FLM-420-08I2-S

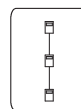


ELS VdS 2489

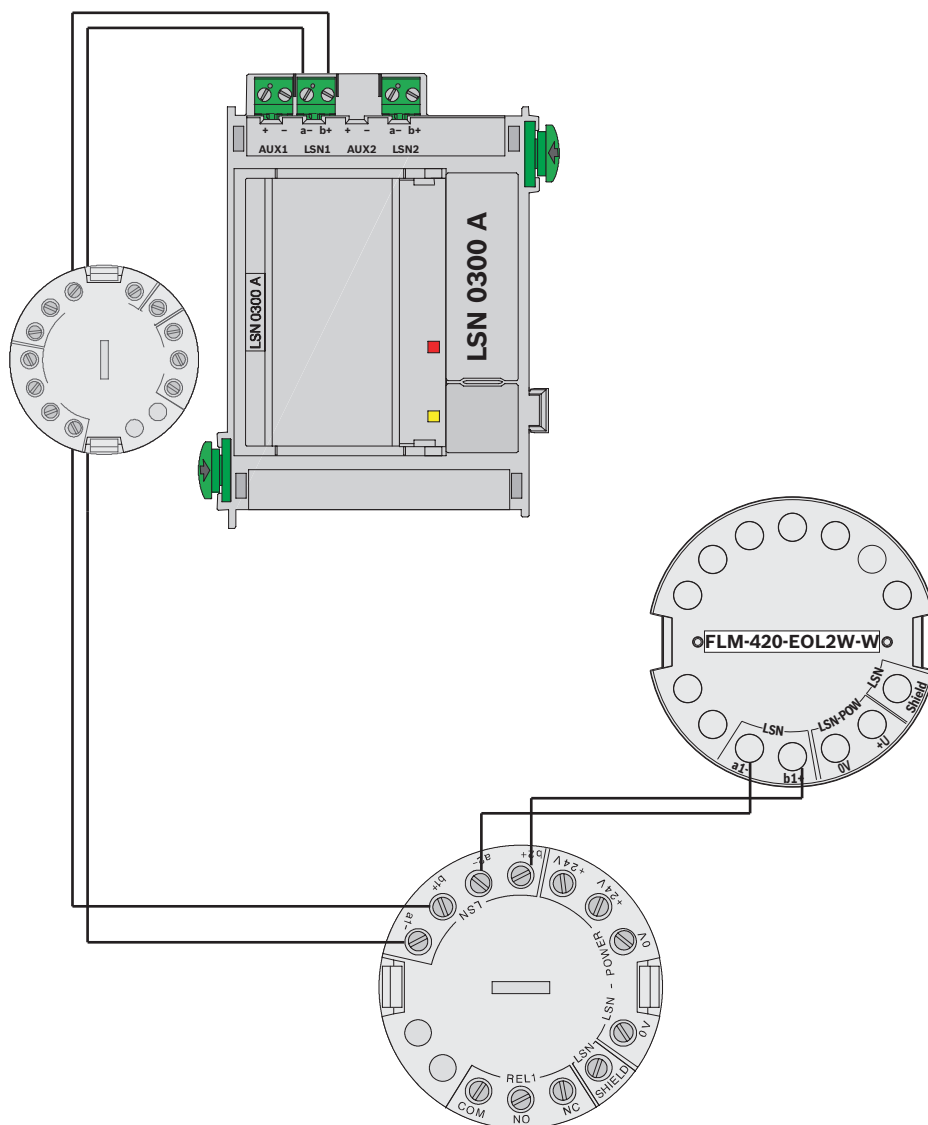


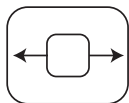


FLM-420-I2-E/-W
FLM-420-RLV1-E

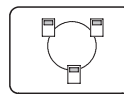


ELS VdS 2489

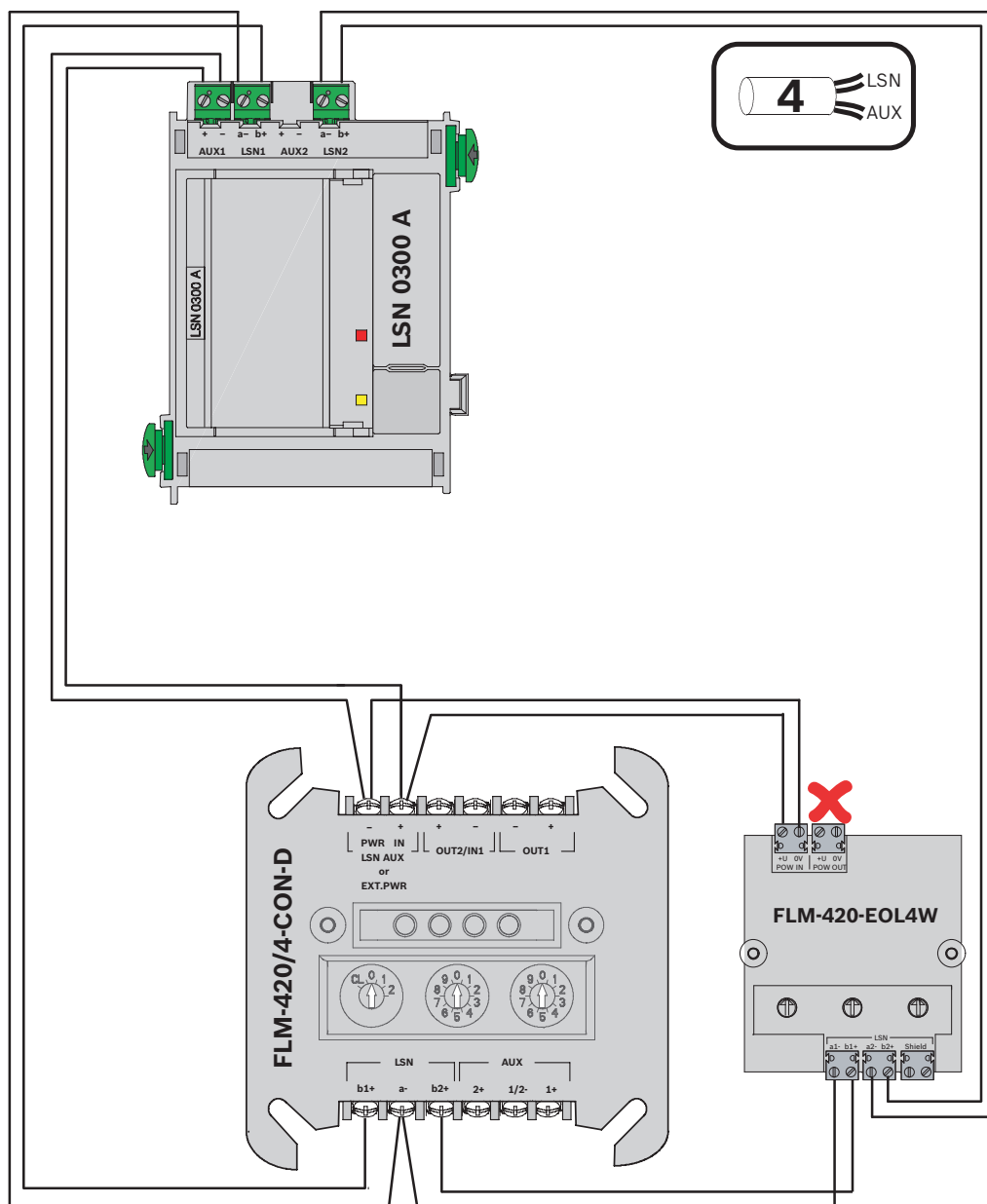


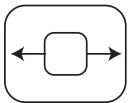


**FLM-420/
4-CON-D**

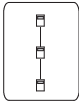


ELS VdS 2489

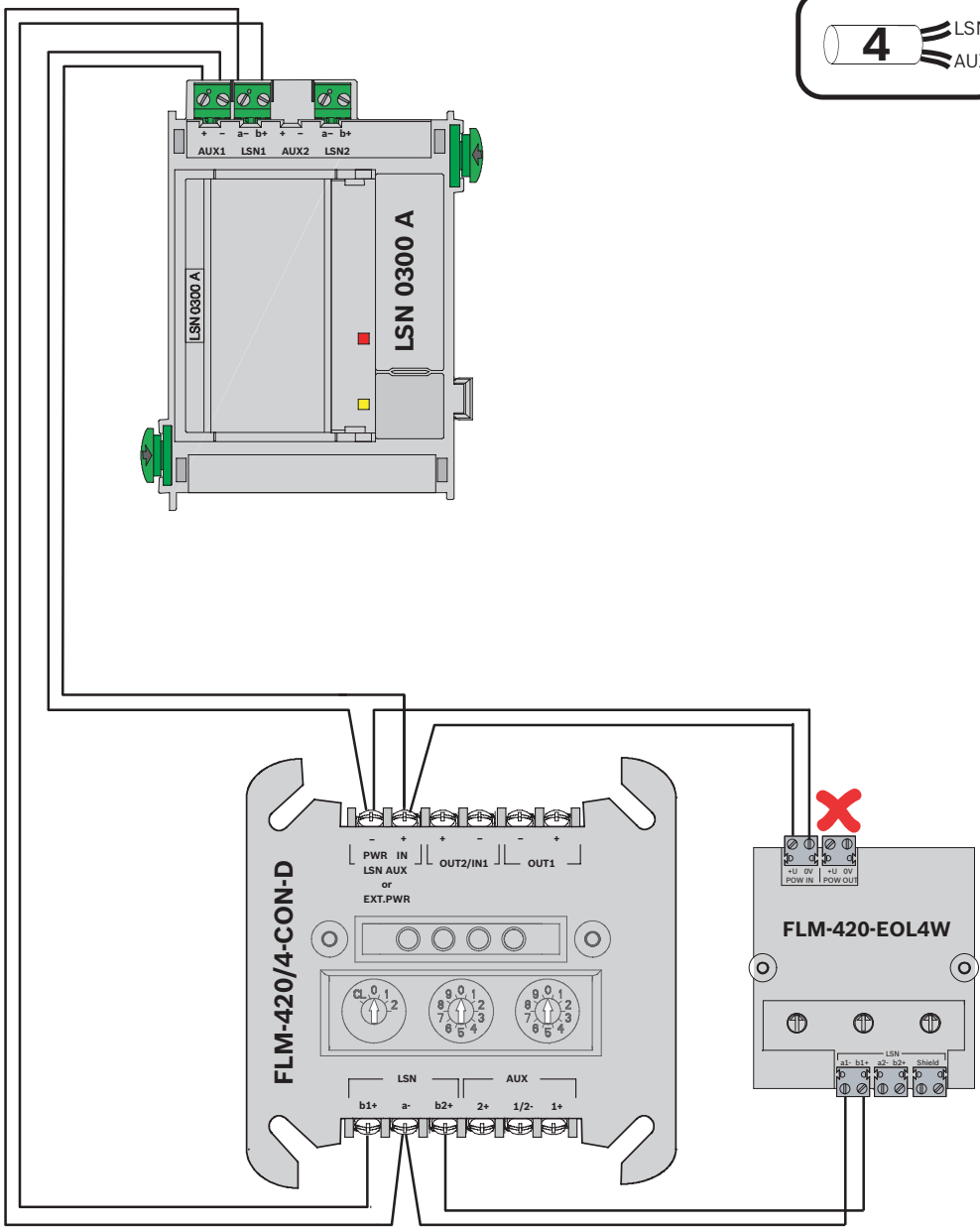


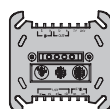
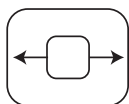
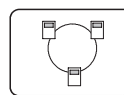
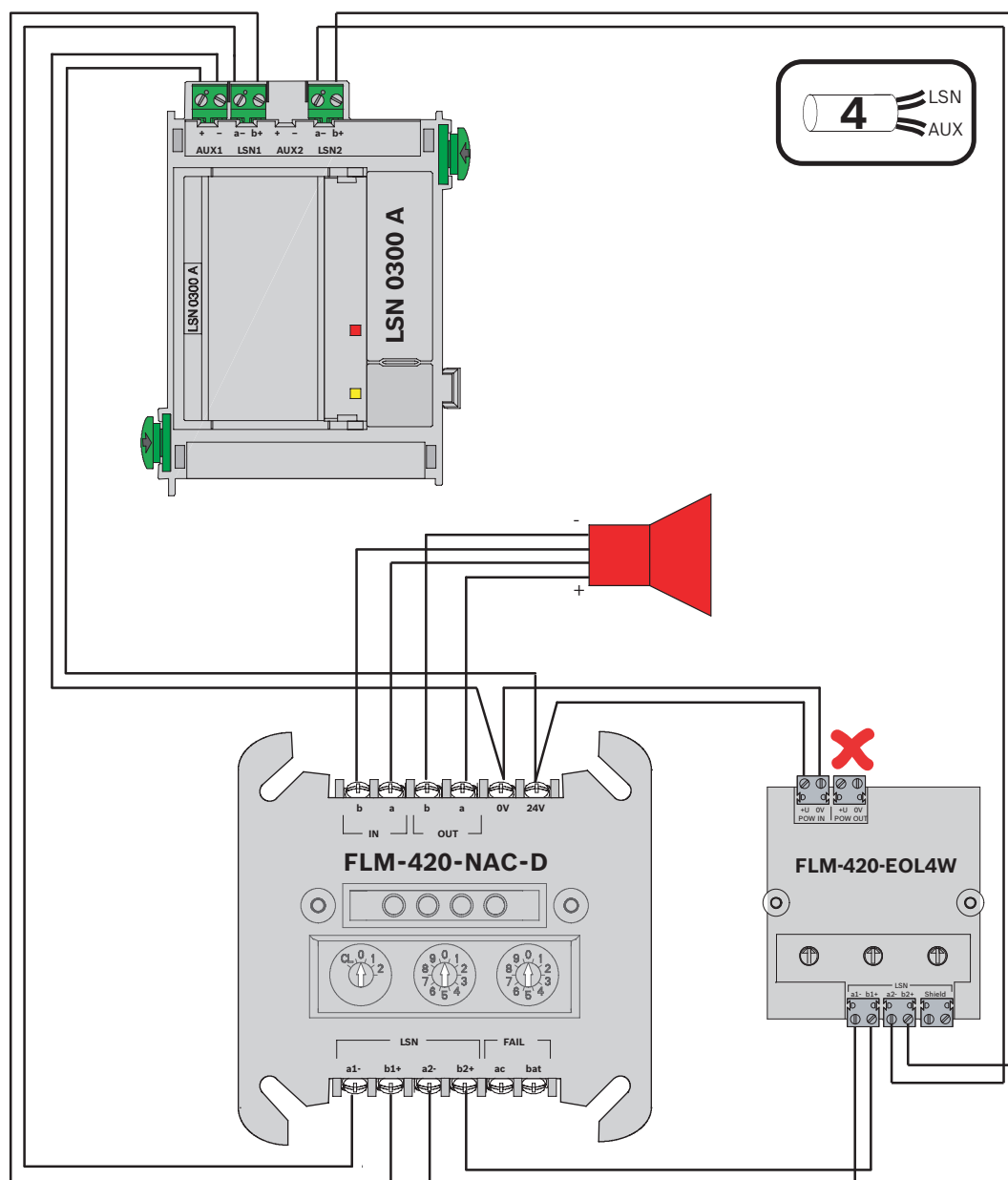


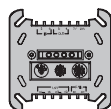
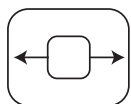
FLM-420/
4-CON-D



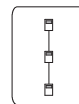
ELS VdS 2489



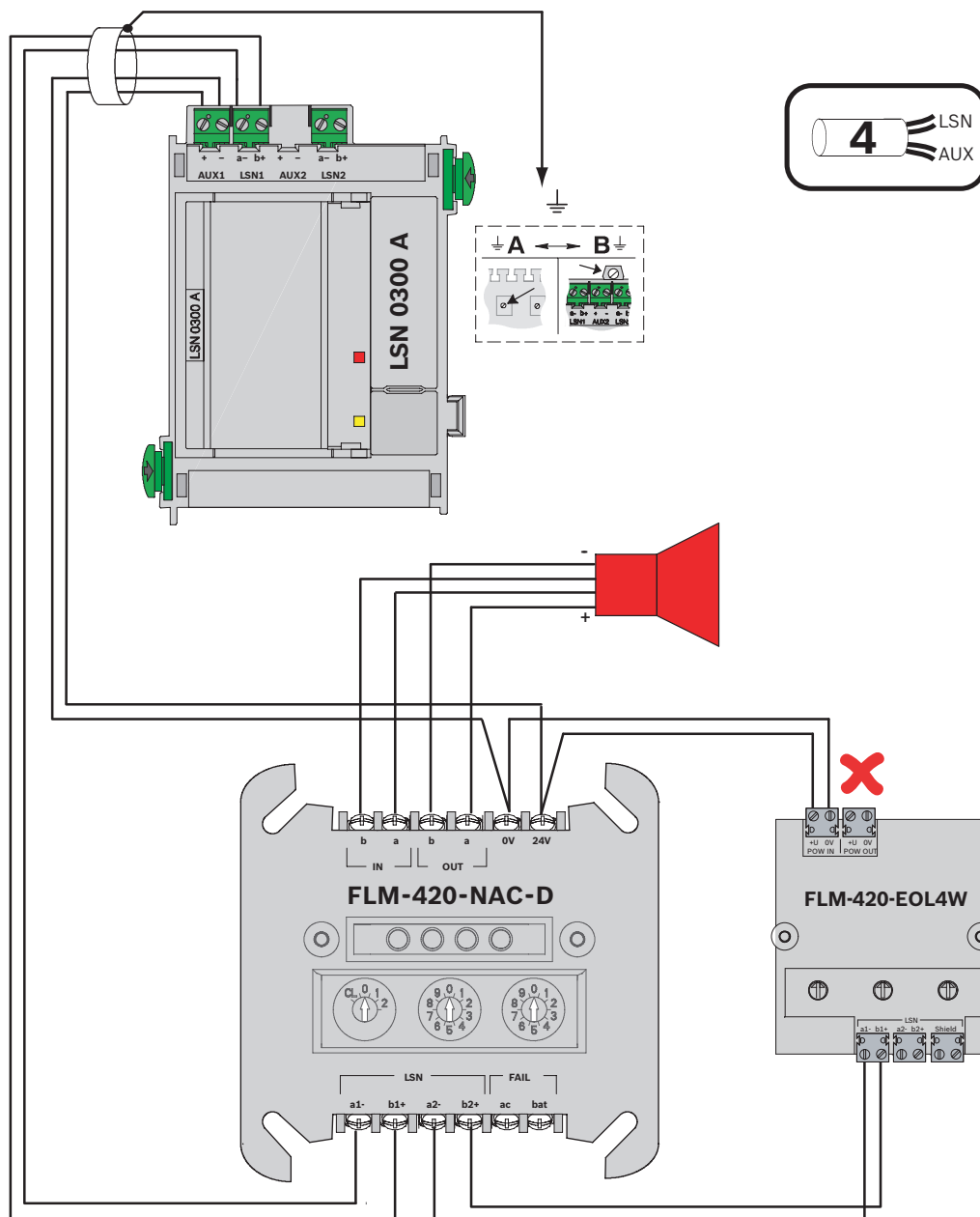
**FLM-420-NAC-D/S****ELS VdS 2489
EN 54-2**

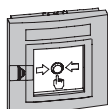
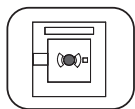


FLM-420-NAC-D/S

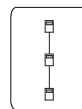


ELS VdS 2489

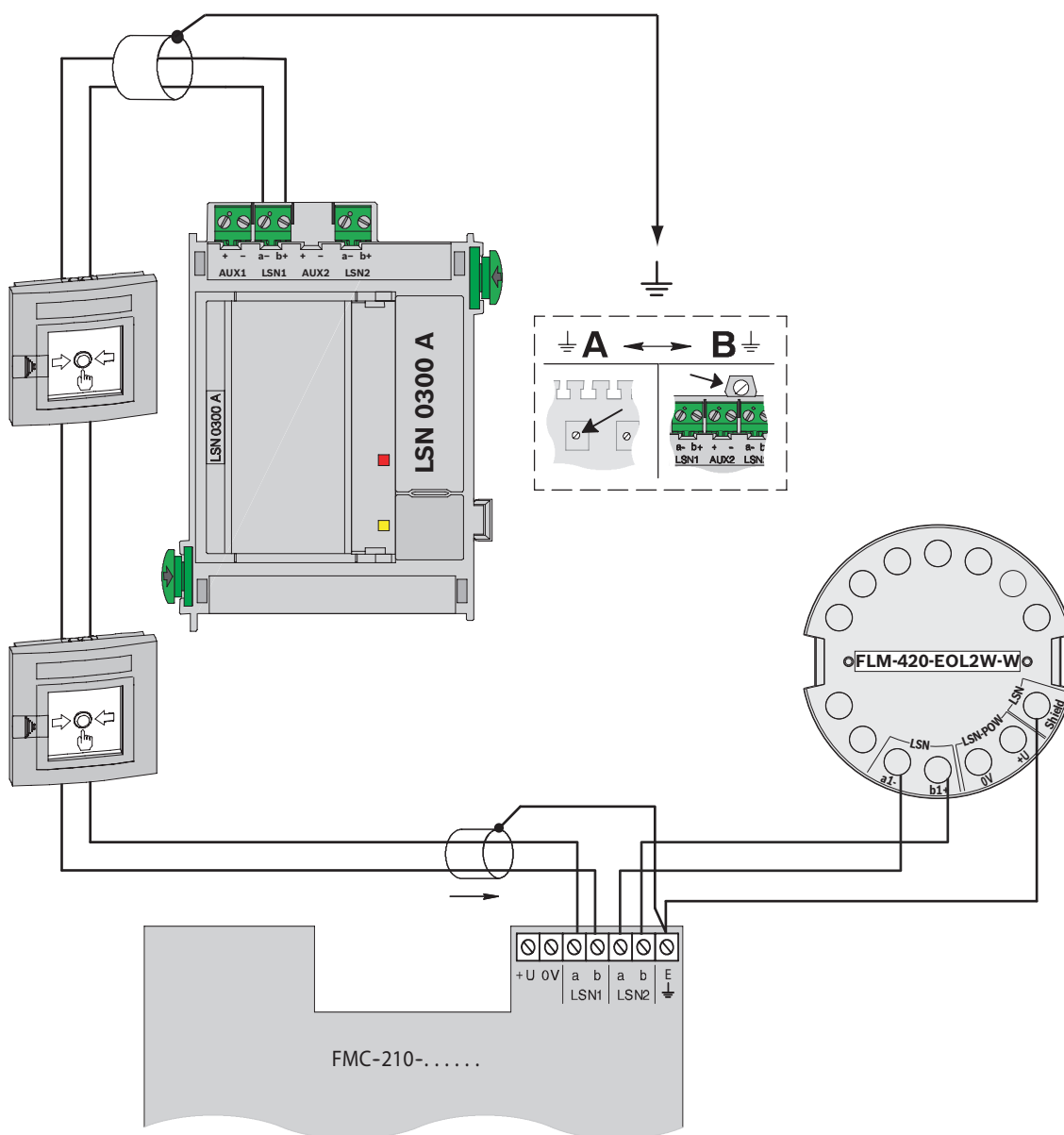


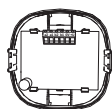


FMC-210-...

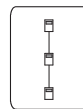


ELS VdS 2489

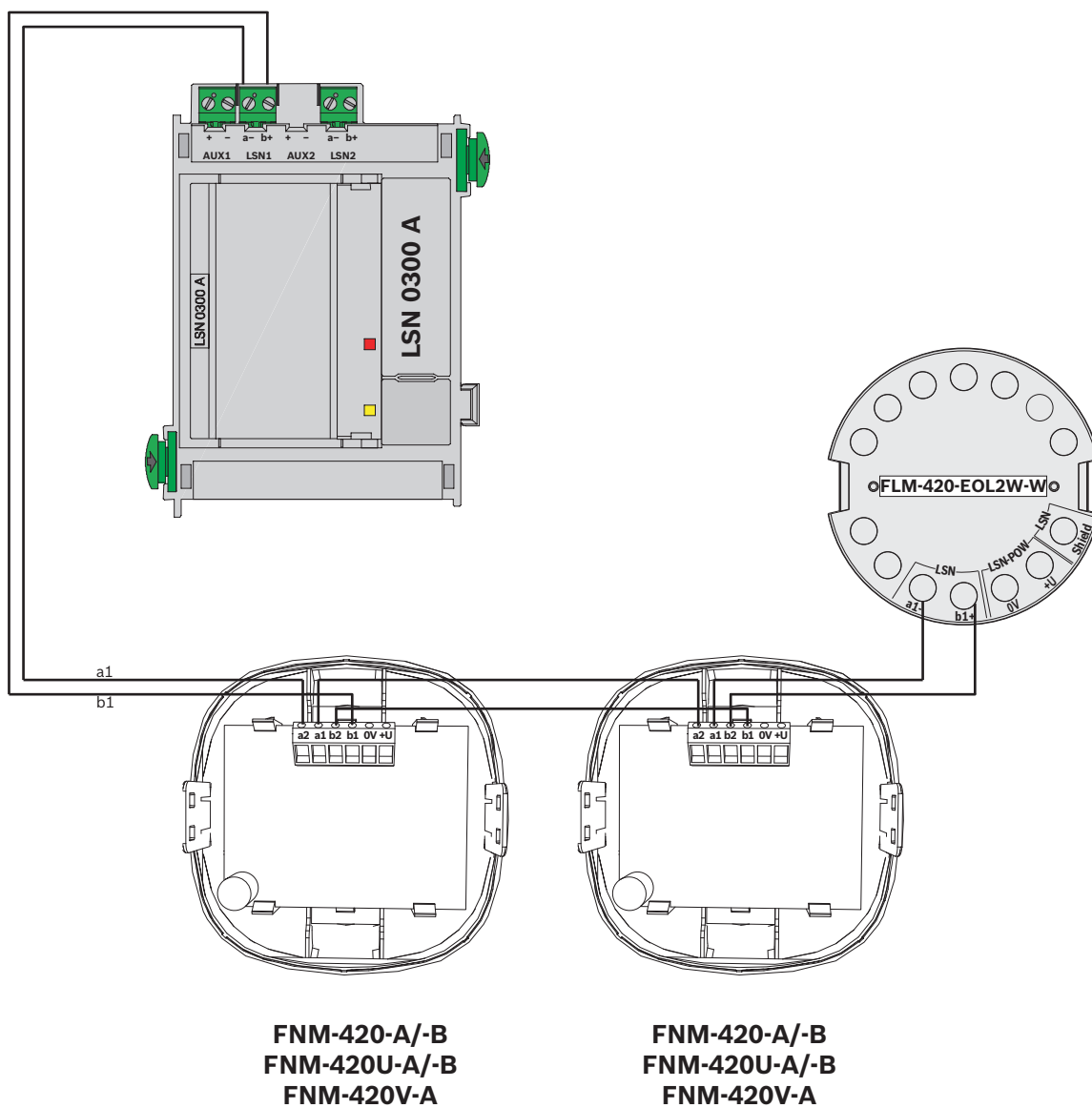




FNM-420-A /-B
FNM-420U-A /-B
FNM-420V-A



ELS VdS 2489

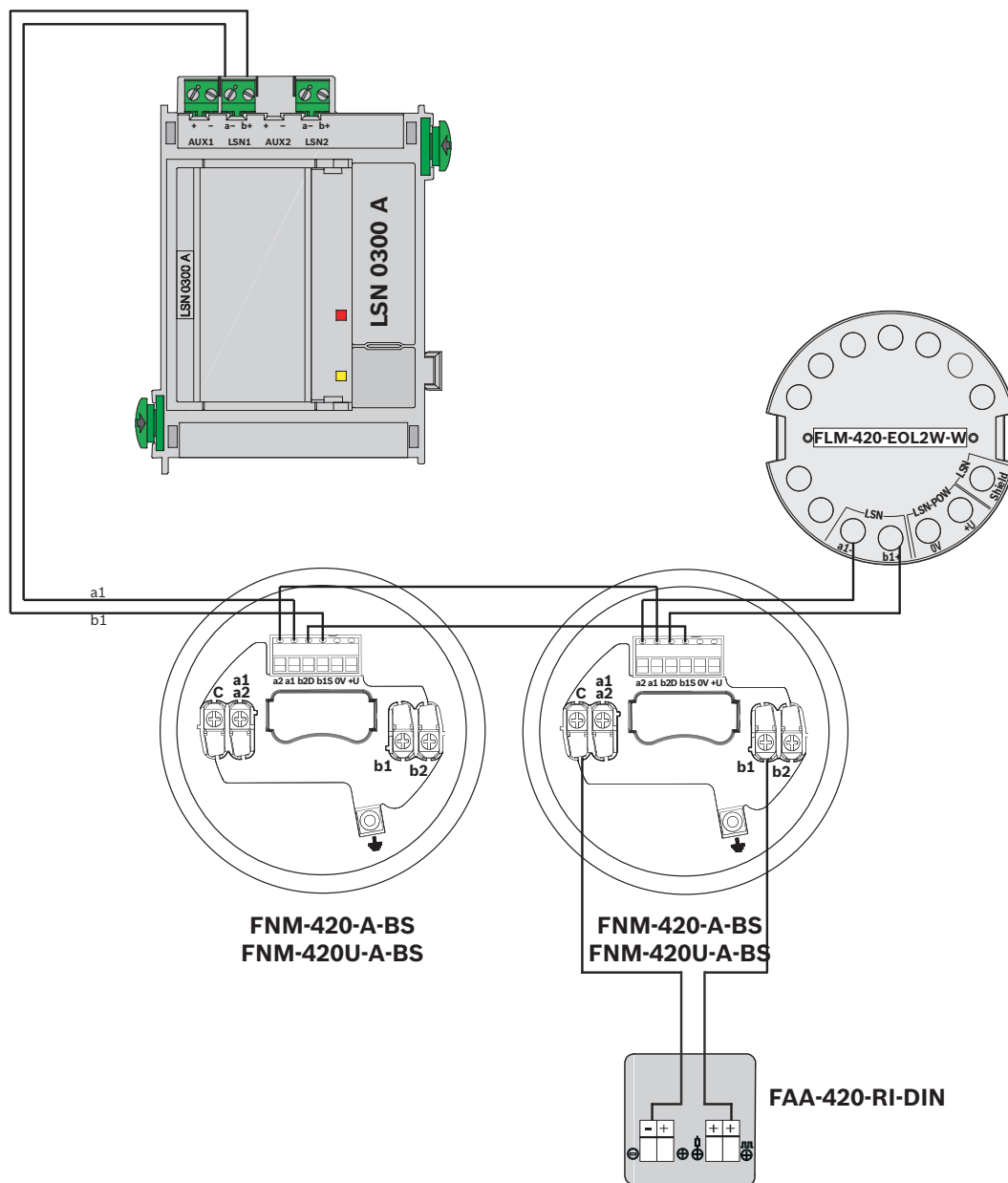




FNM-420-A-BS
FNM-420U-A-BS



ELS **VdS 2489**

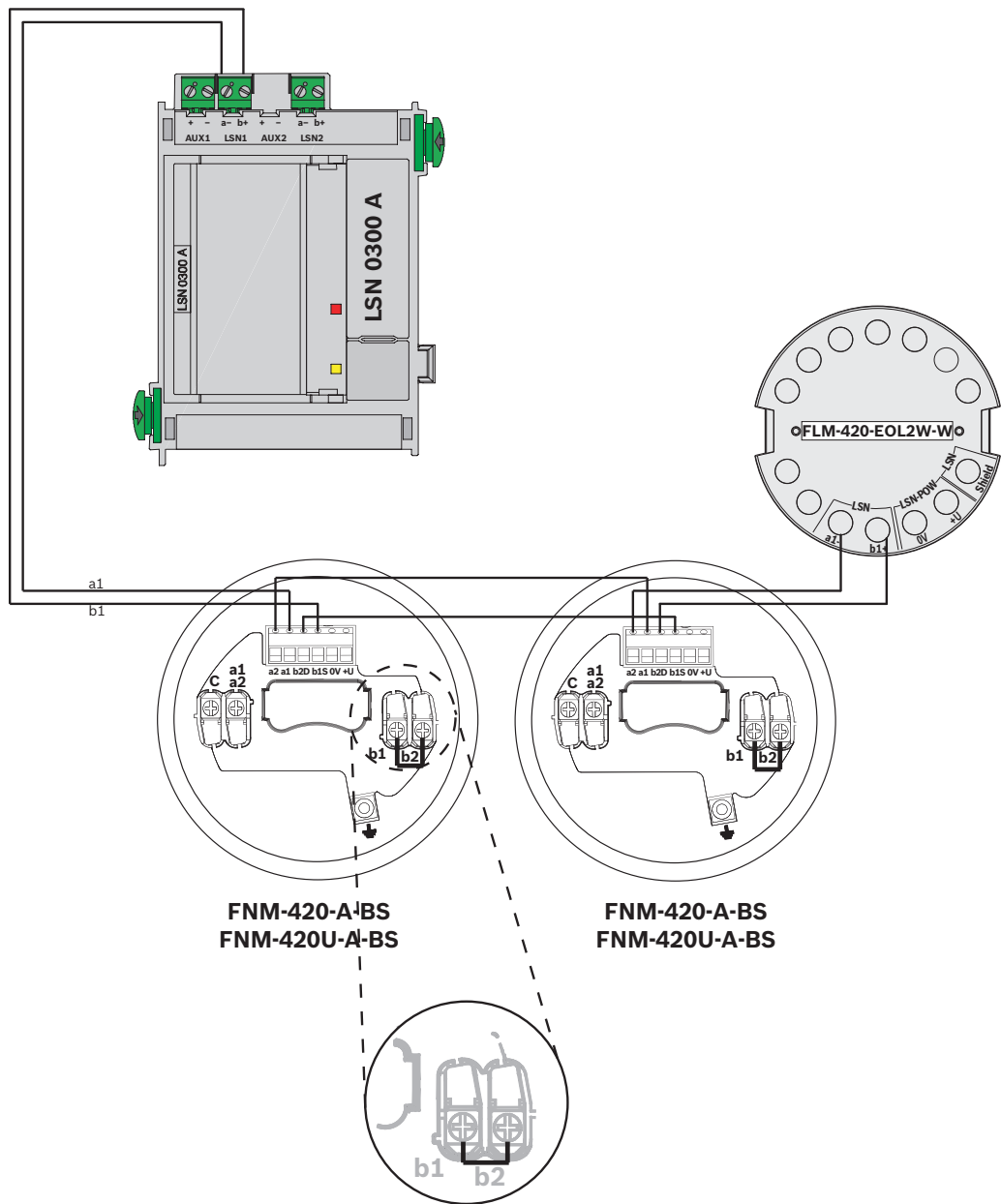




FNM-420-A-BS
FNM-420U-A-BS



ELS VdS 2489

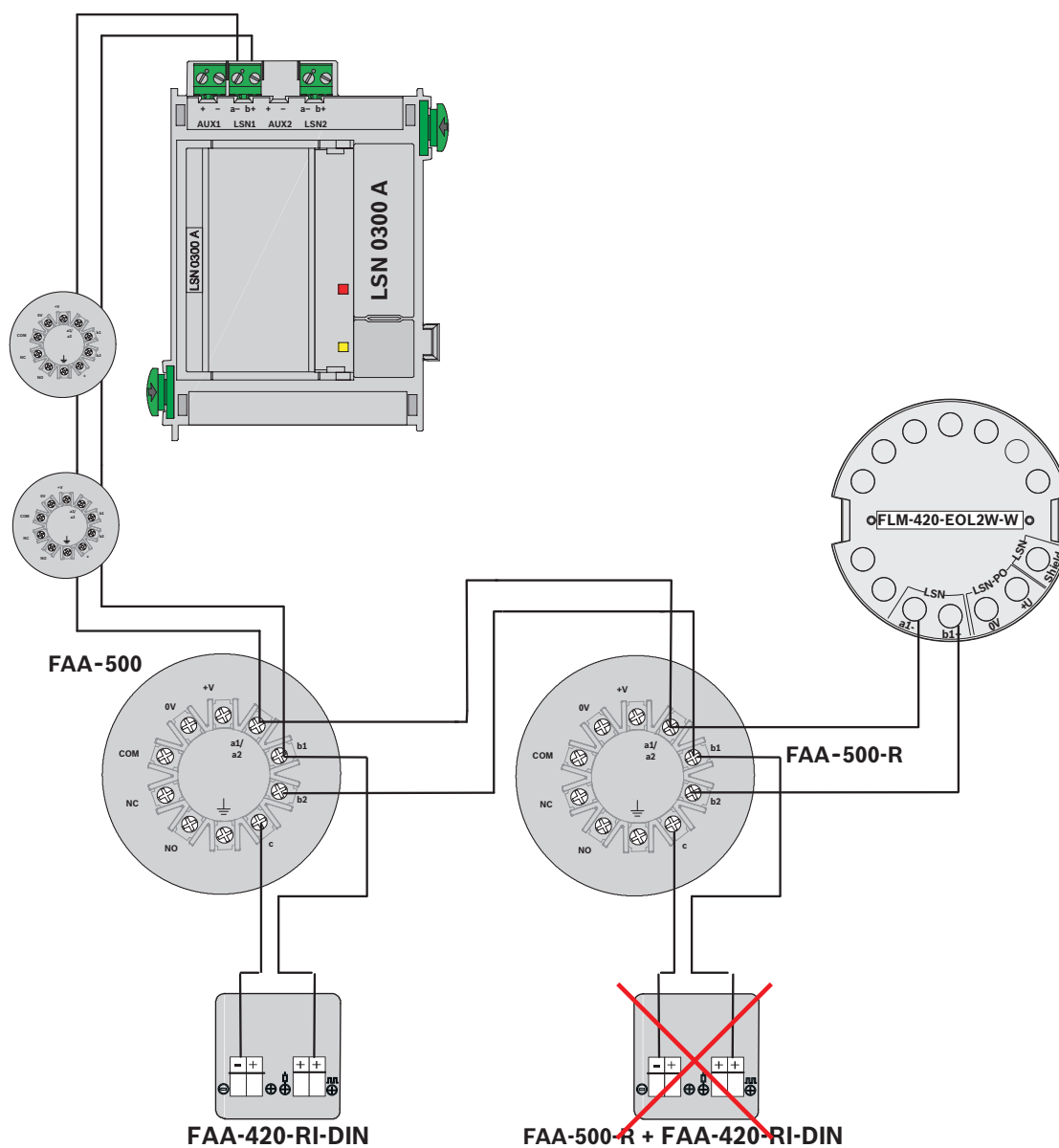




FAP-0520
FAP-0520-P
FAP-OC520
FAP-OC-520-P



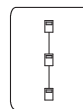
ELS VdS 2489



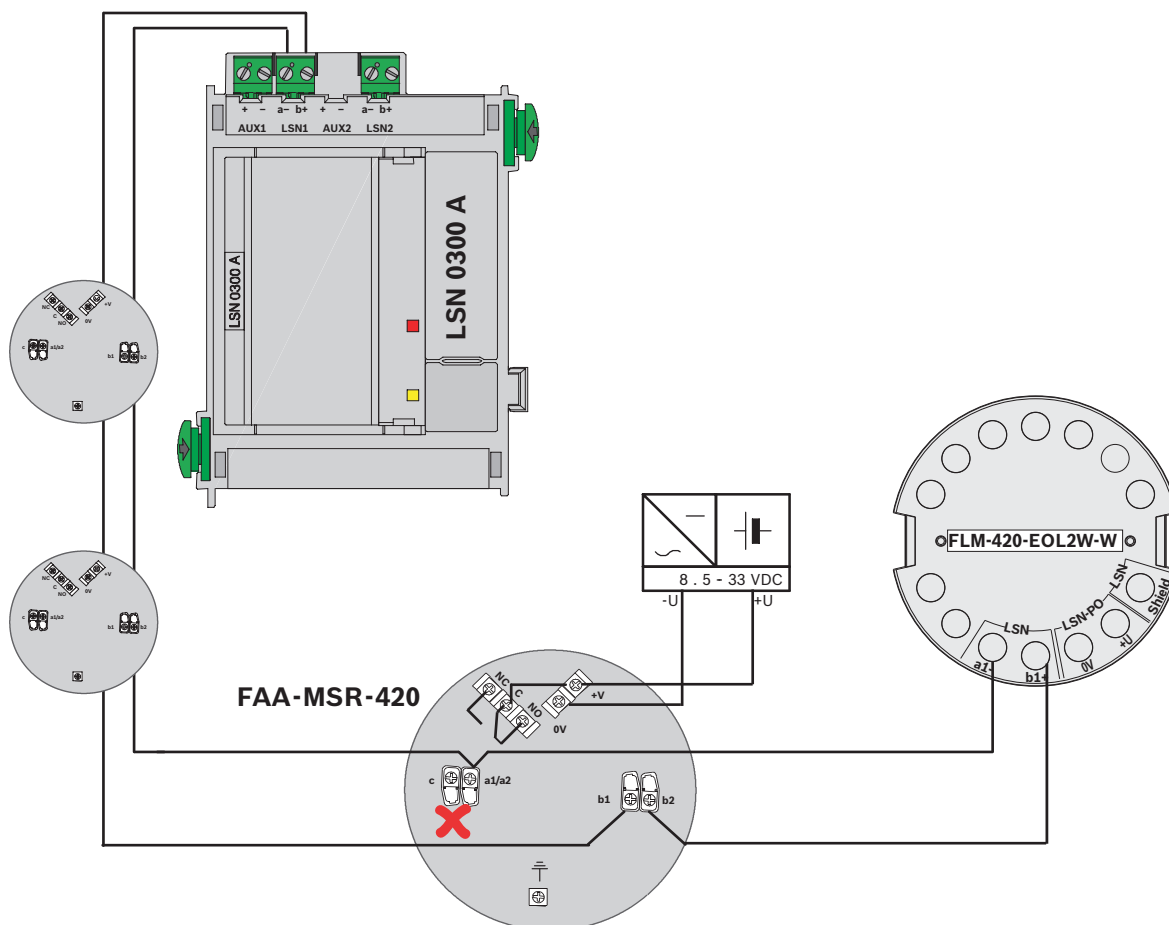


FAP-425-O/-O-R
FAP-425-OT/-OT-R
FAP-425-T-R
FAP-425-DO-R/DOT-R/-DOTC-R

FAP-425-DO-R/DOT-R/-DOTC-R

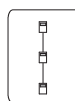


ELS VdS 2489

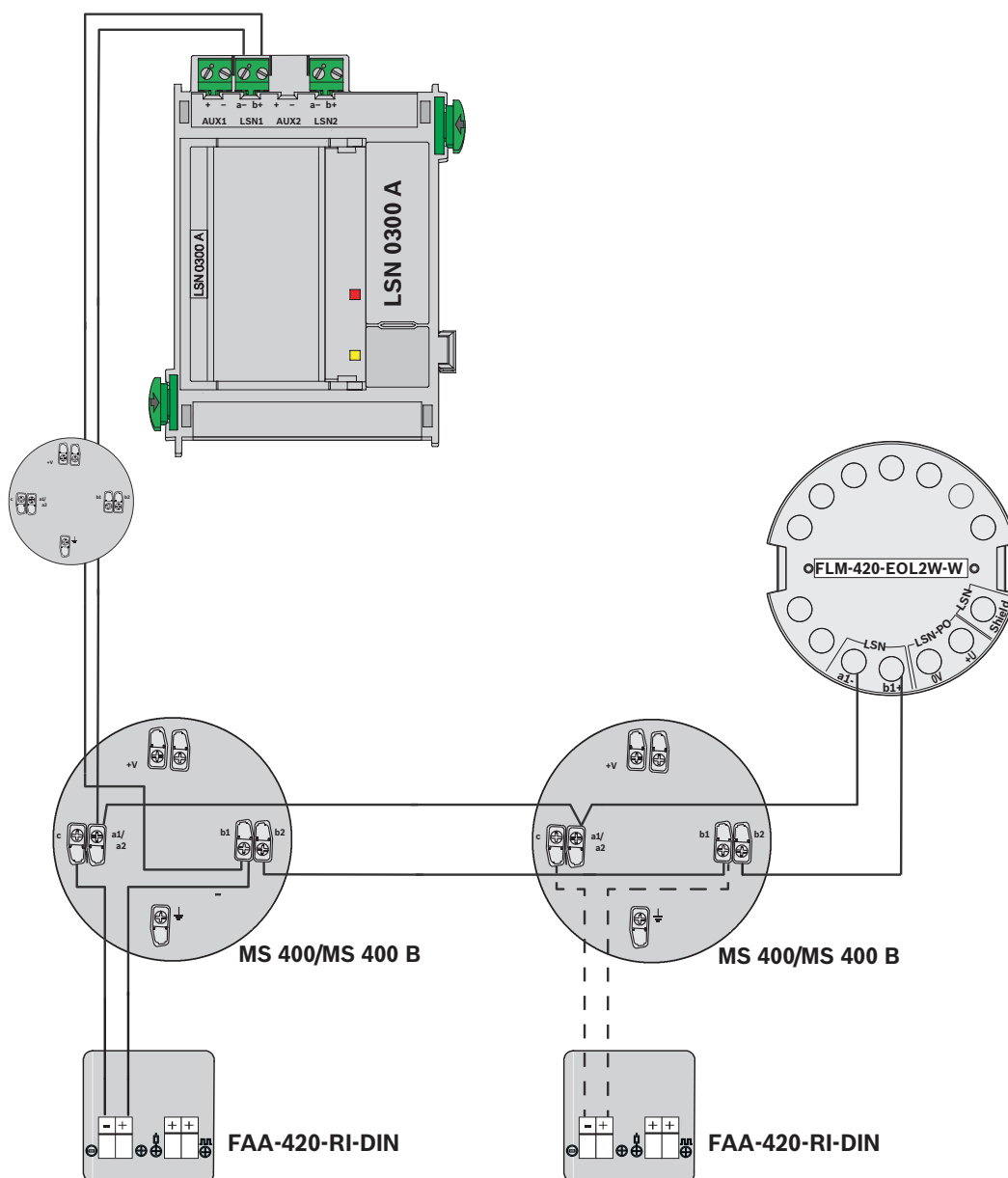


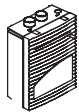


FAP-425-O/-O-R/-OT/-OT-R/-T-R
 FAP-425-DO-R/DOT-R/-DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470

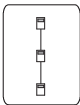


ELS VdS 2489

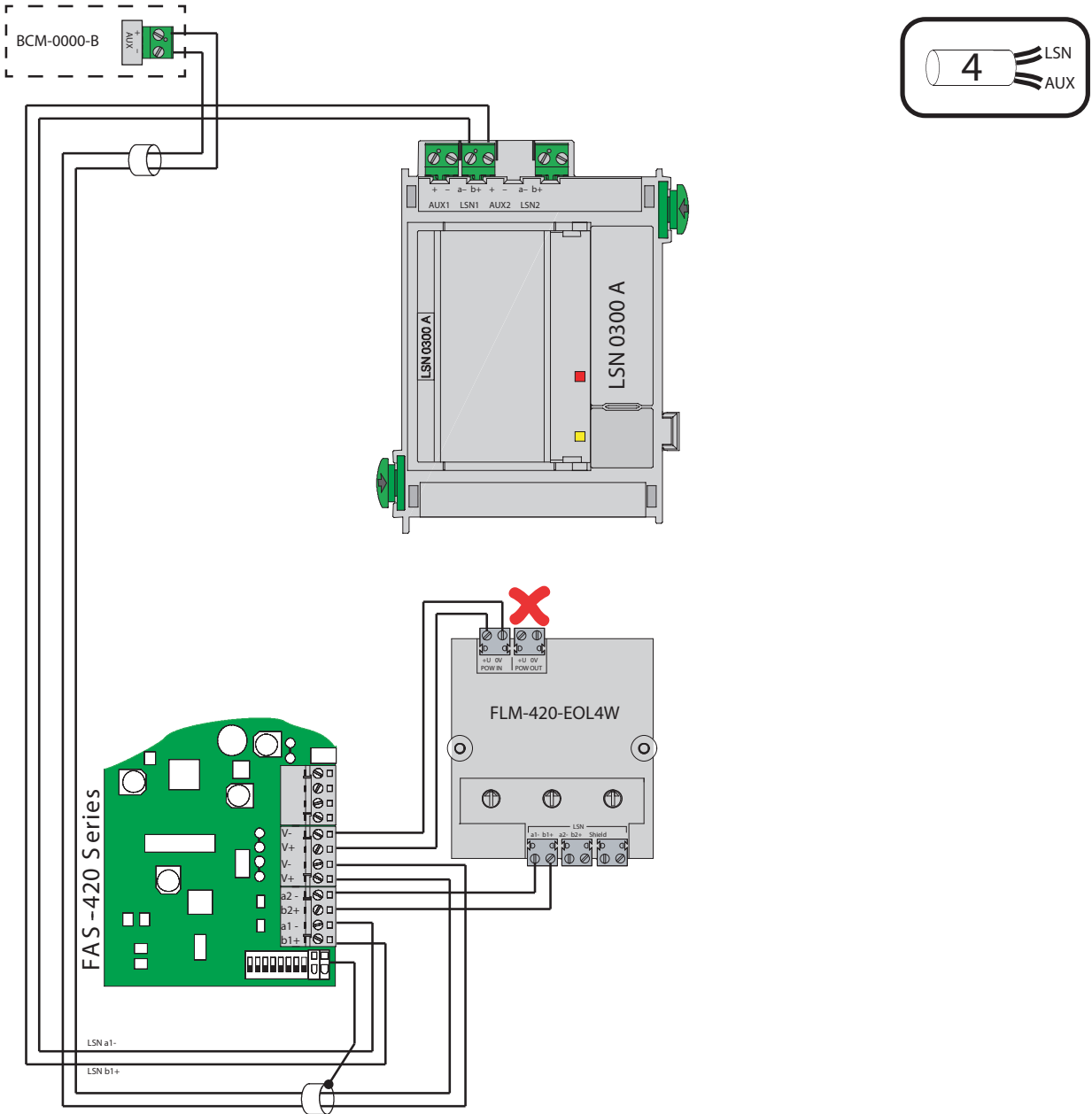


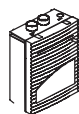


FAS-420 Series

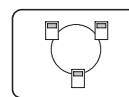


ELS VdS 2489

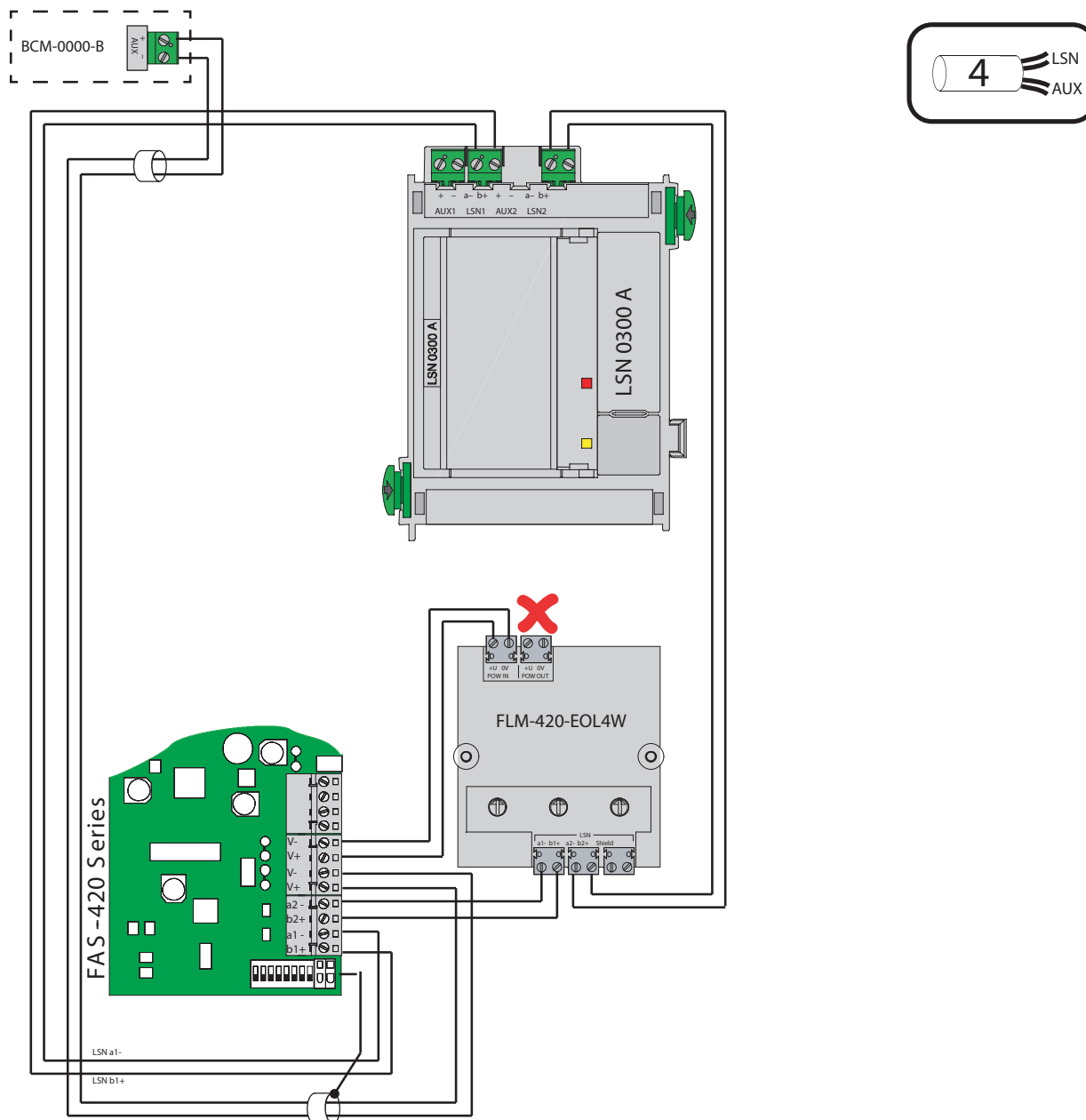


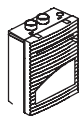


FAS-420 Series

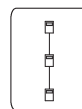


ELS VdS 2489

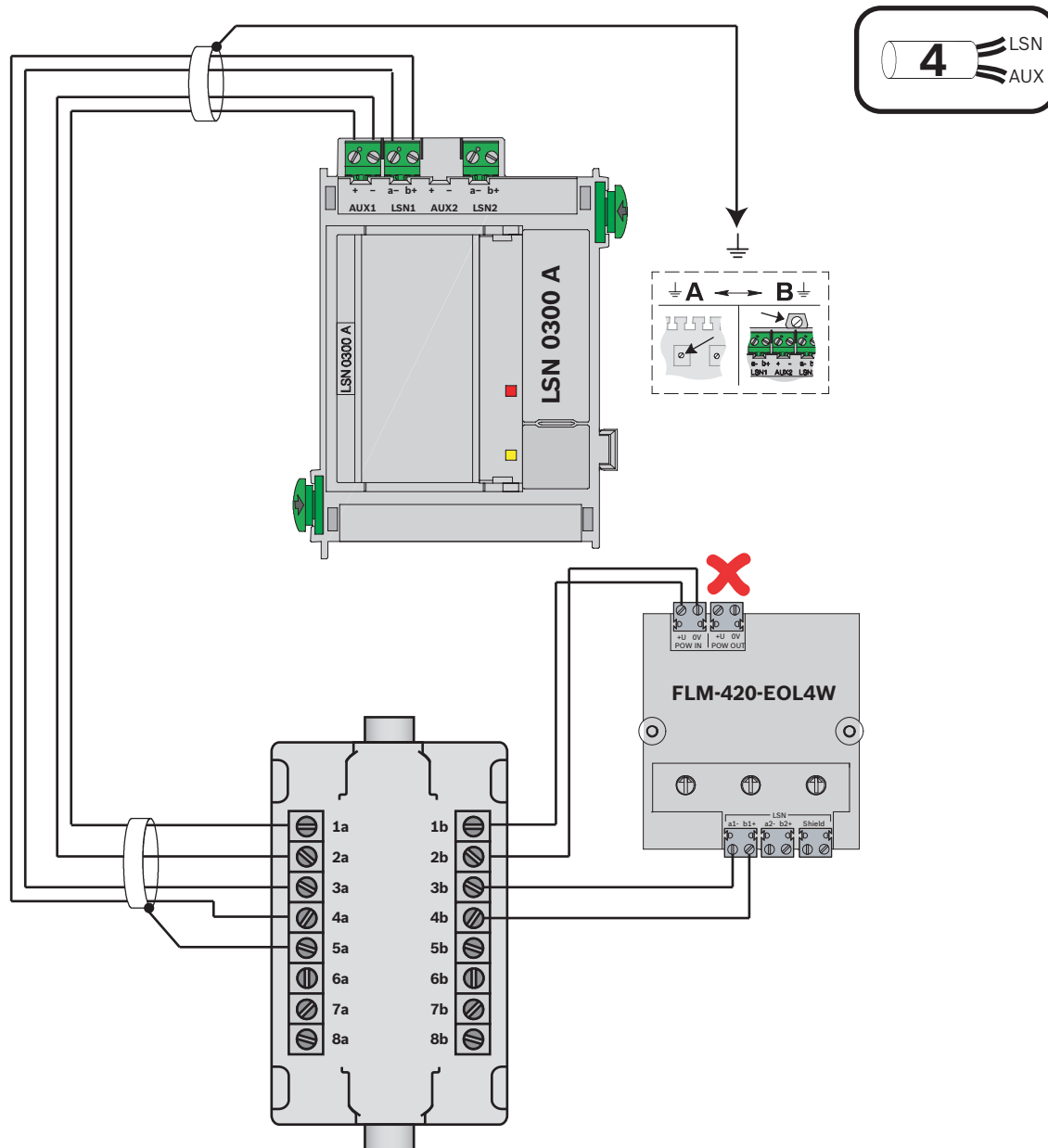


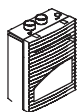


FAS-420-TM Series

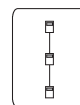


ELS VdS 2489



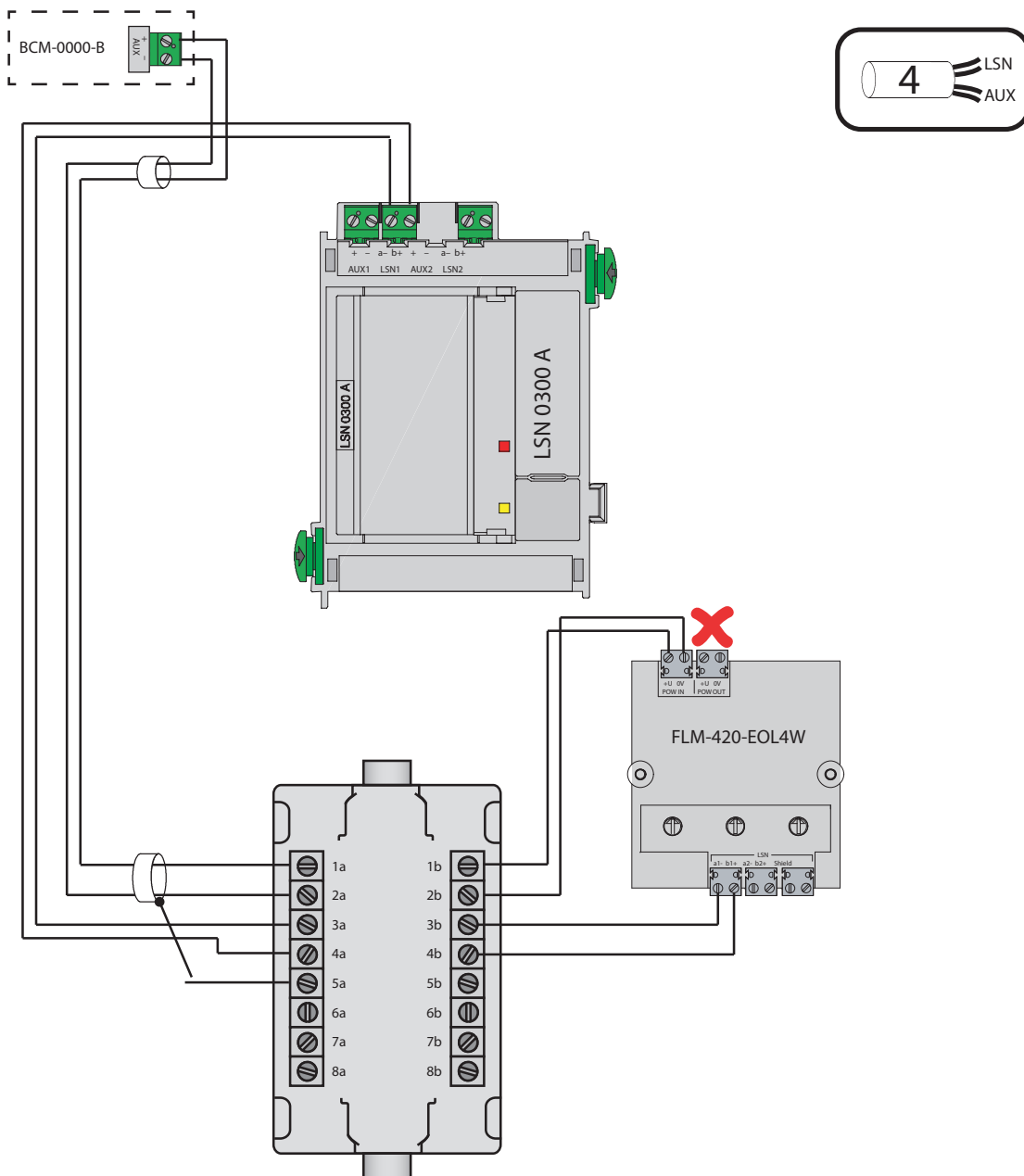


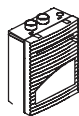
FAS-420-TM Series



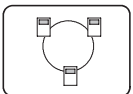
ELS

VdS 2489

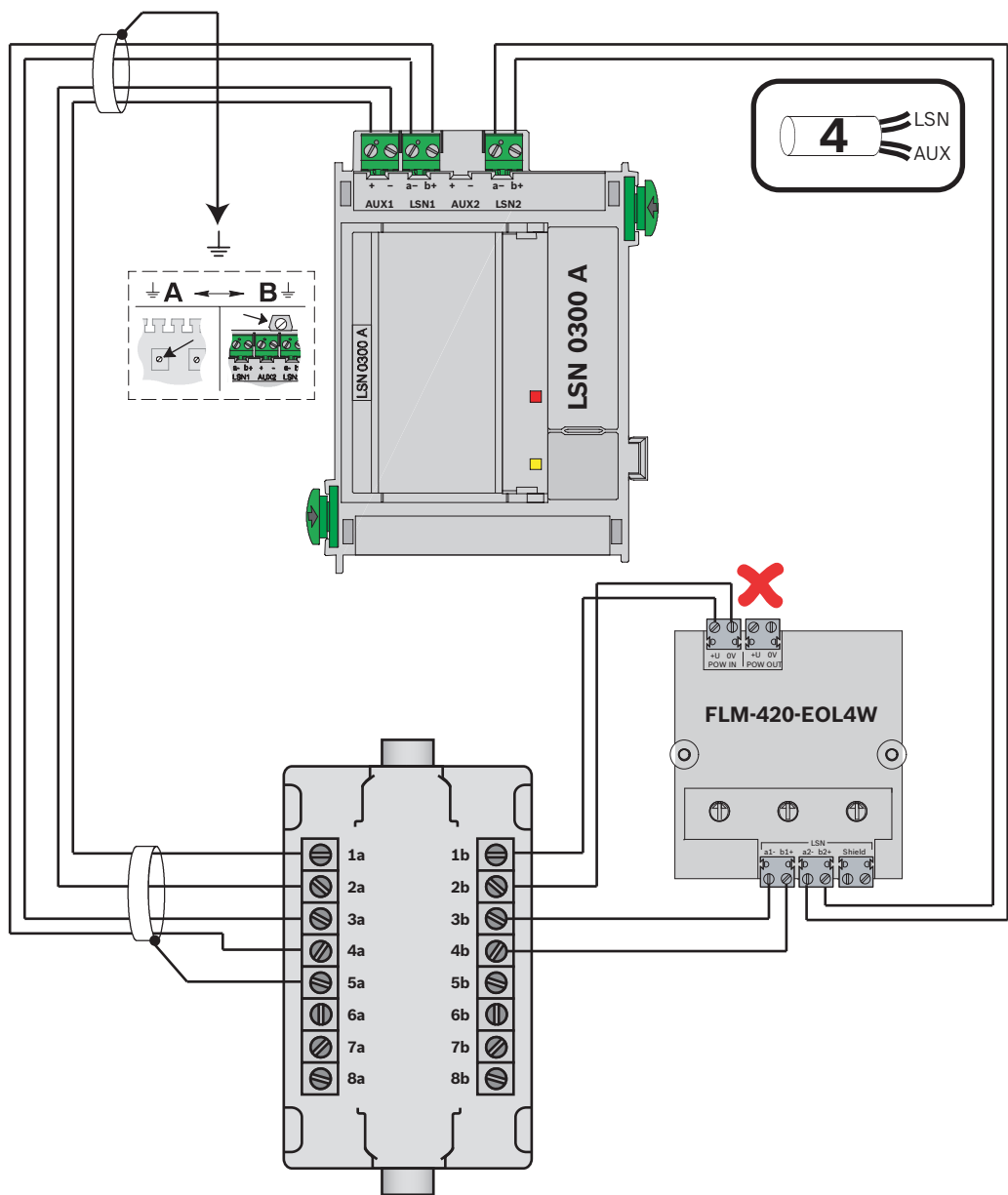


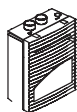


FAS-420-TM Series

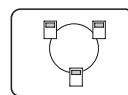


ELS VdS 2489



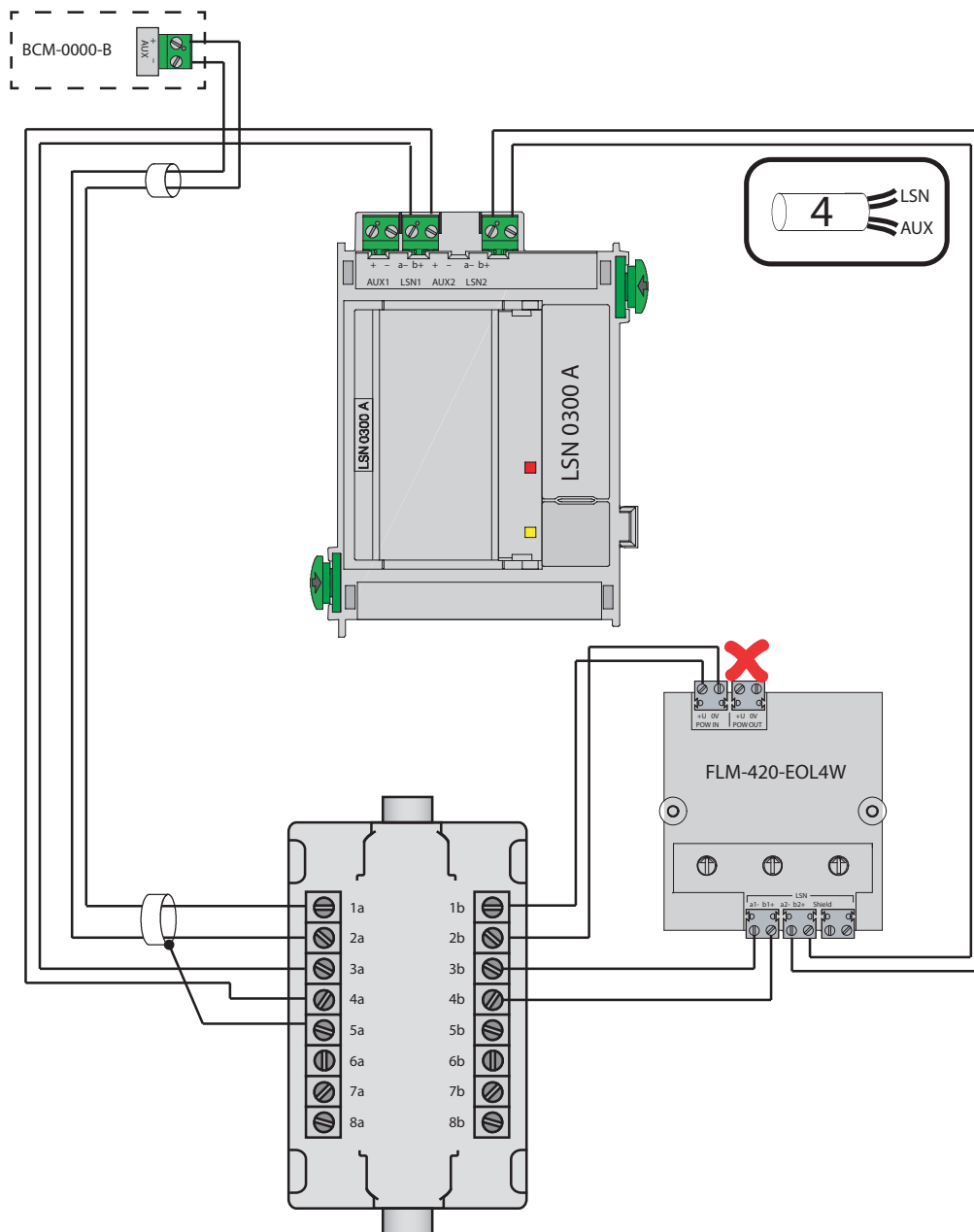


FAS-420-TM Series



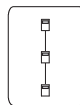
ELS

VdS 2489

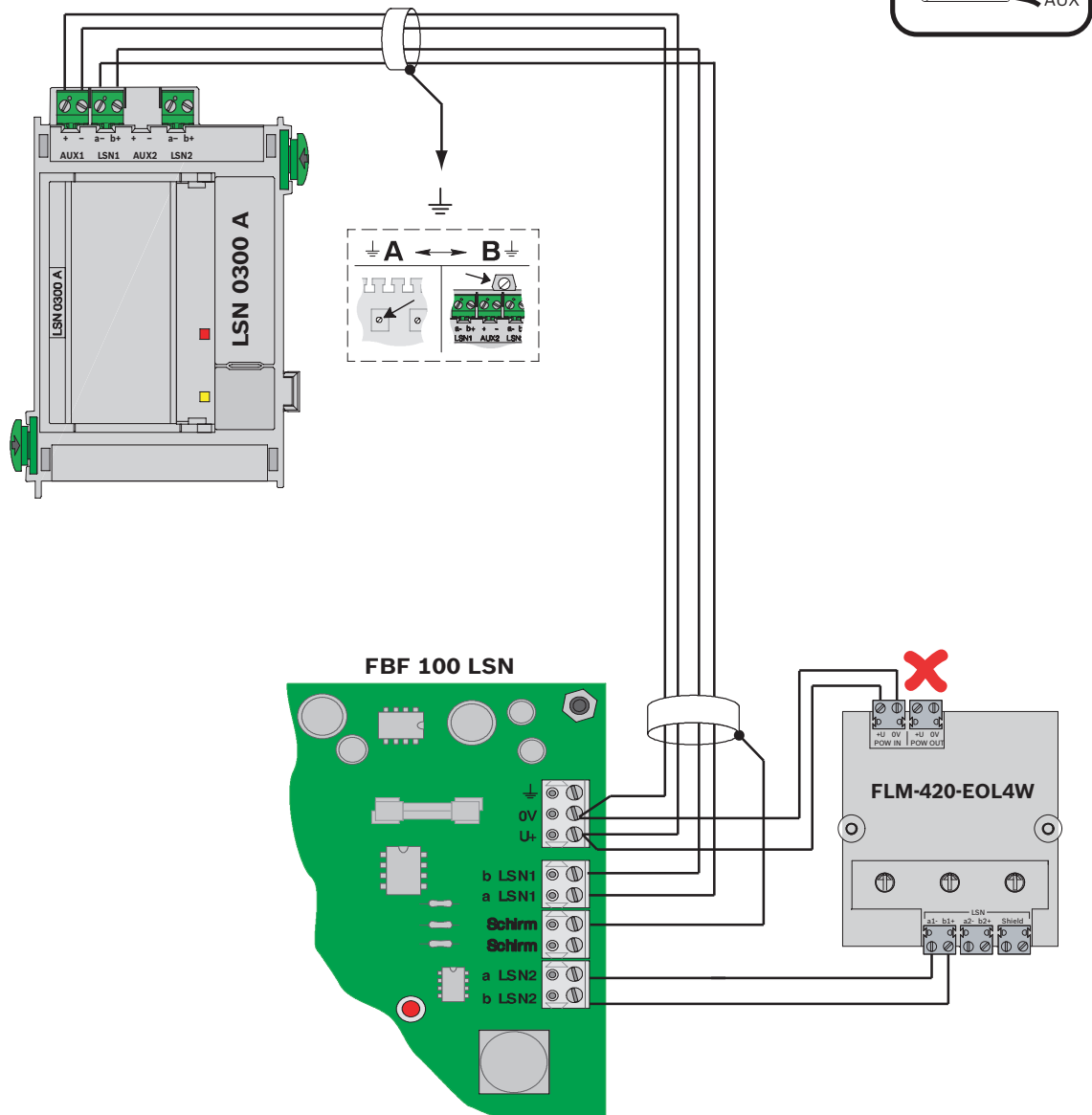


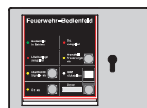


FBF 100 LSN

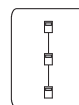


ELS VdS 2489

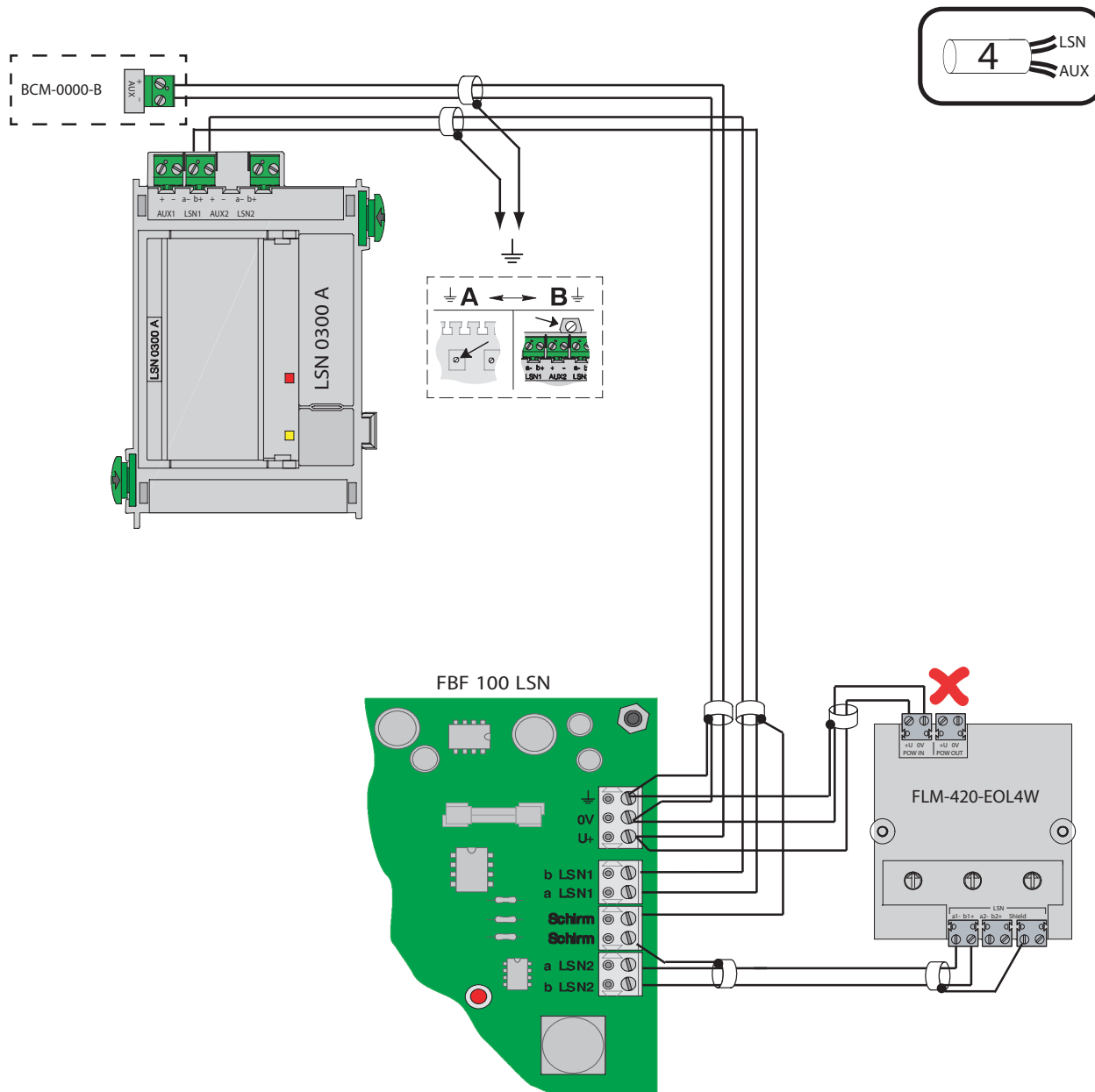




FBF 100 LSN

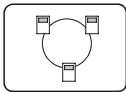


ELS VdS 2489

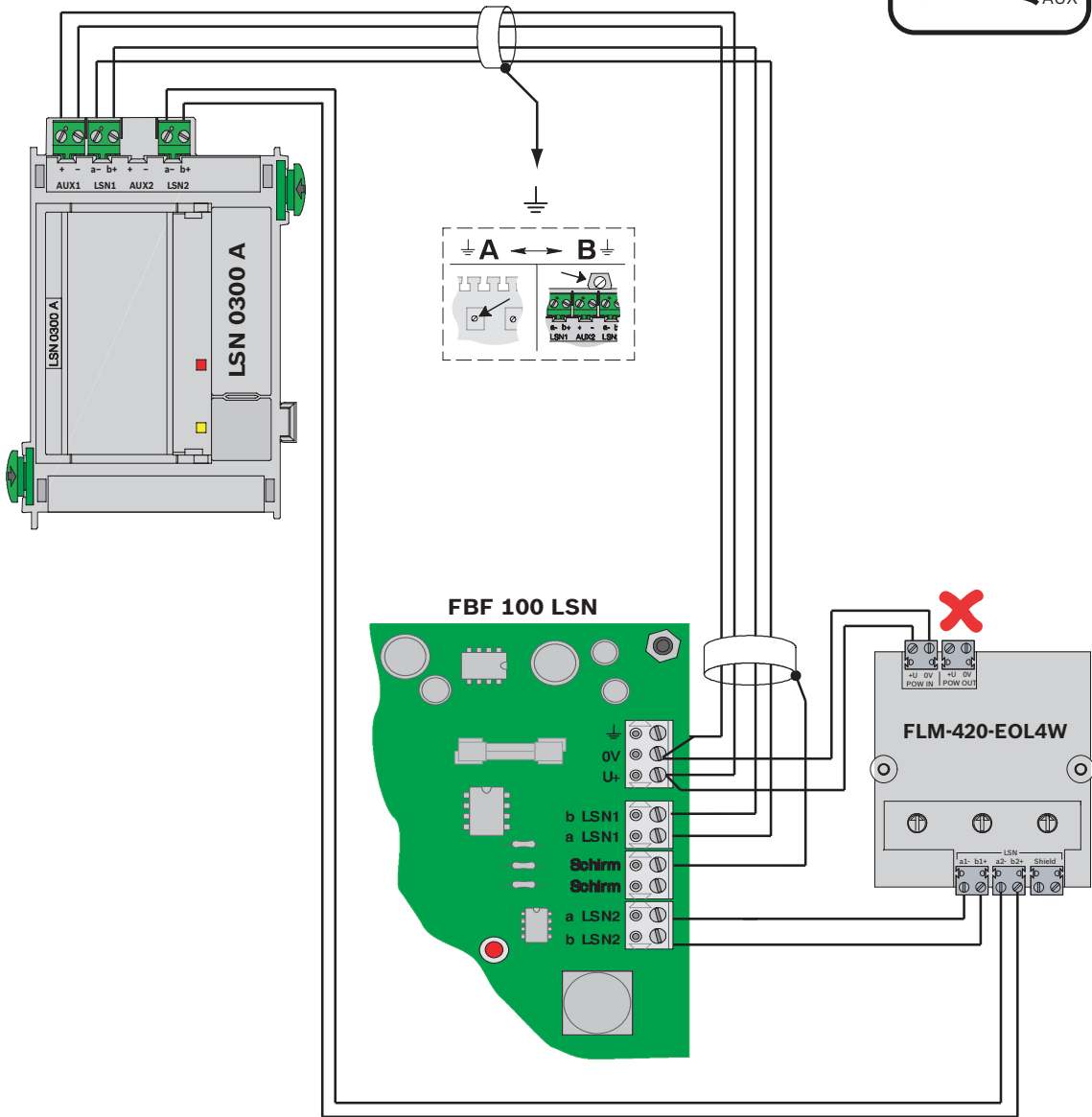




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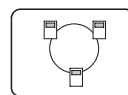


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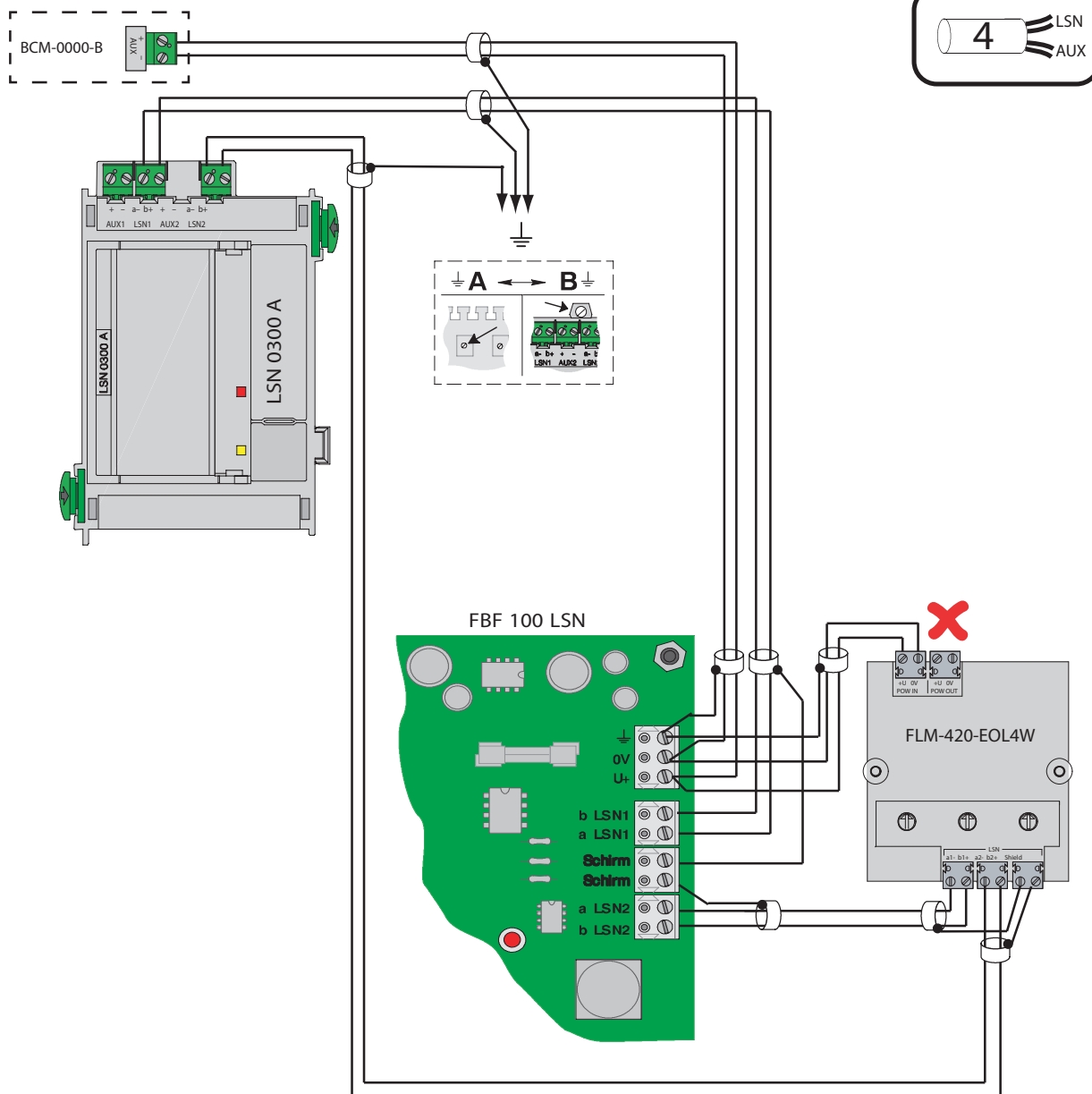


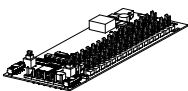


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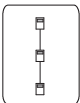


ELS VdS 2489

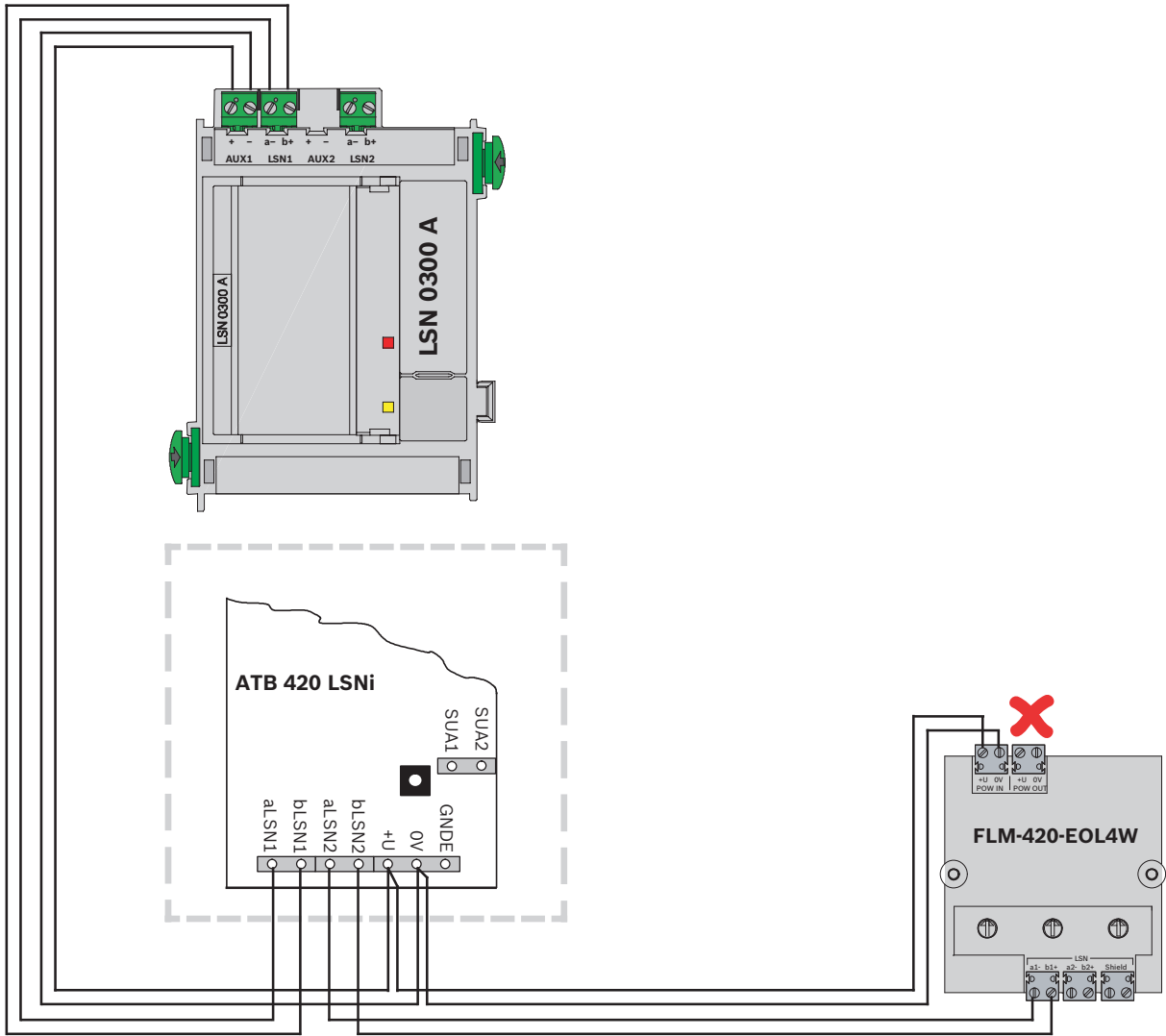


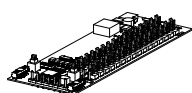


ATB 420 LSNi

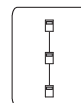


ELS VdS 2489

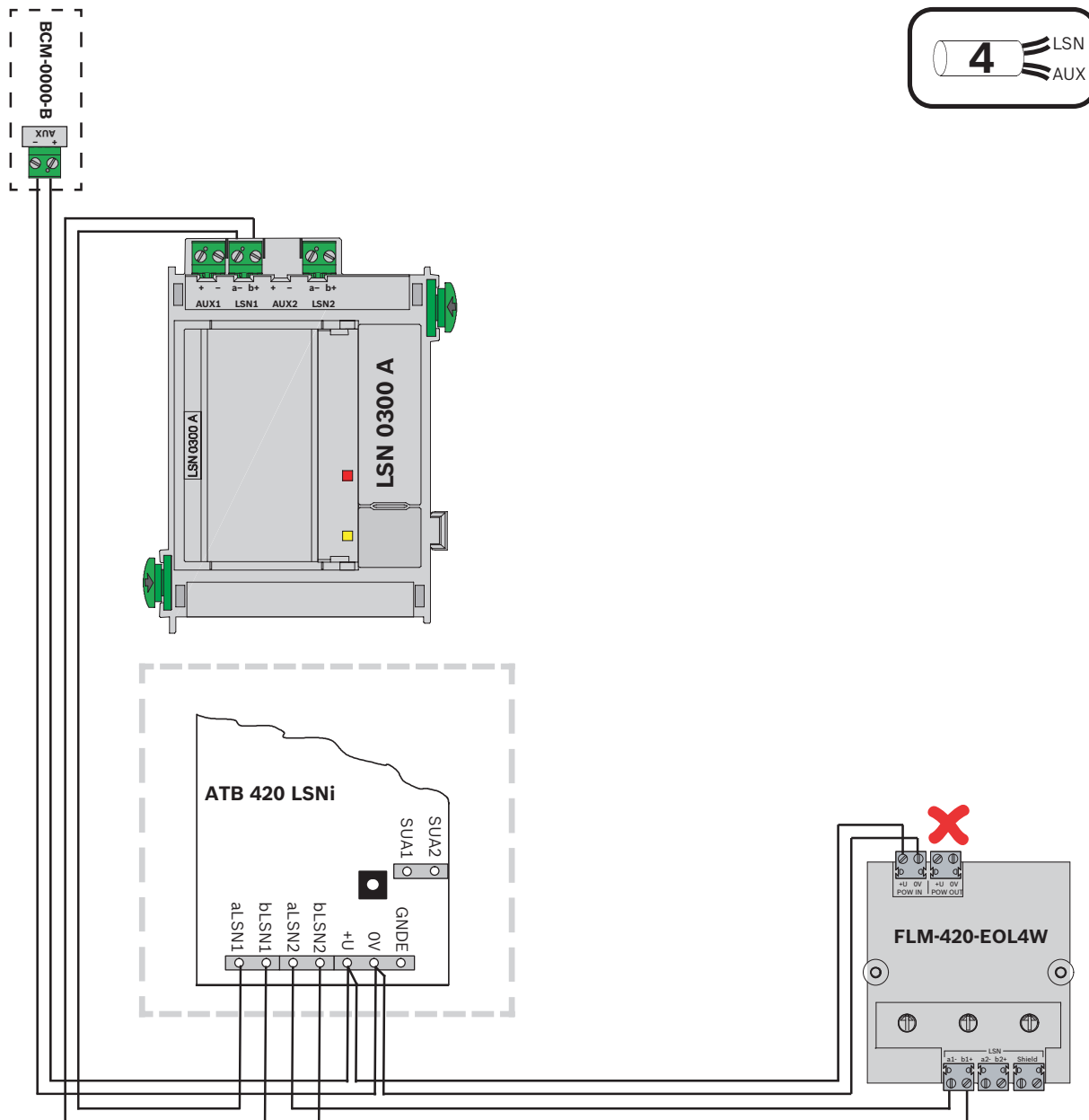


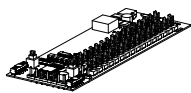


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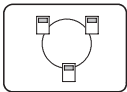


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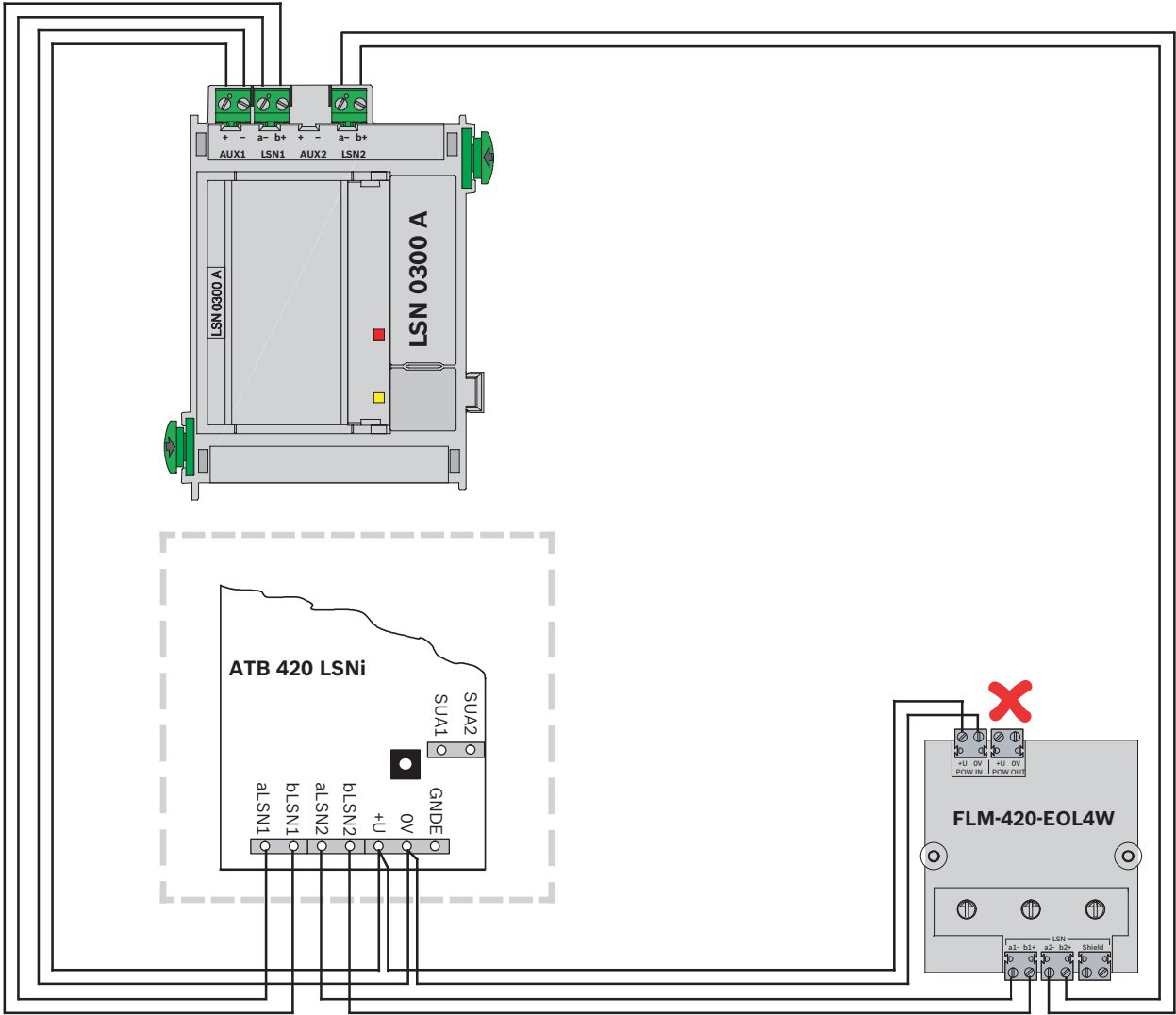


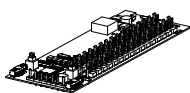


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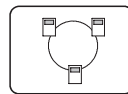


ELS VdS 2489

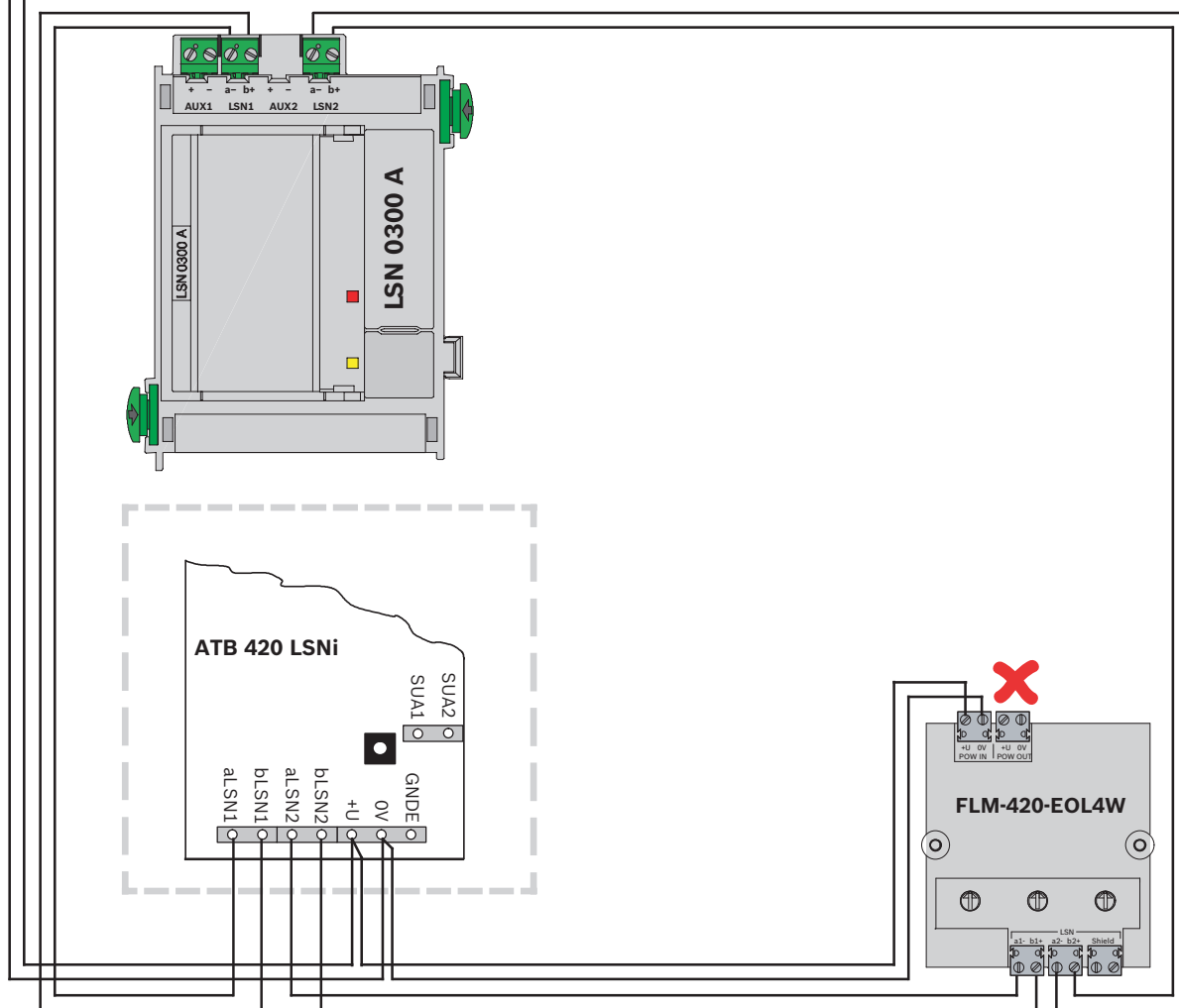
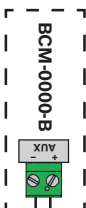




ATB 420 LSNi

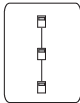


ELS VdS 2489

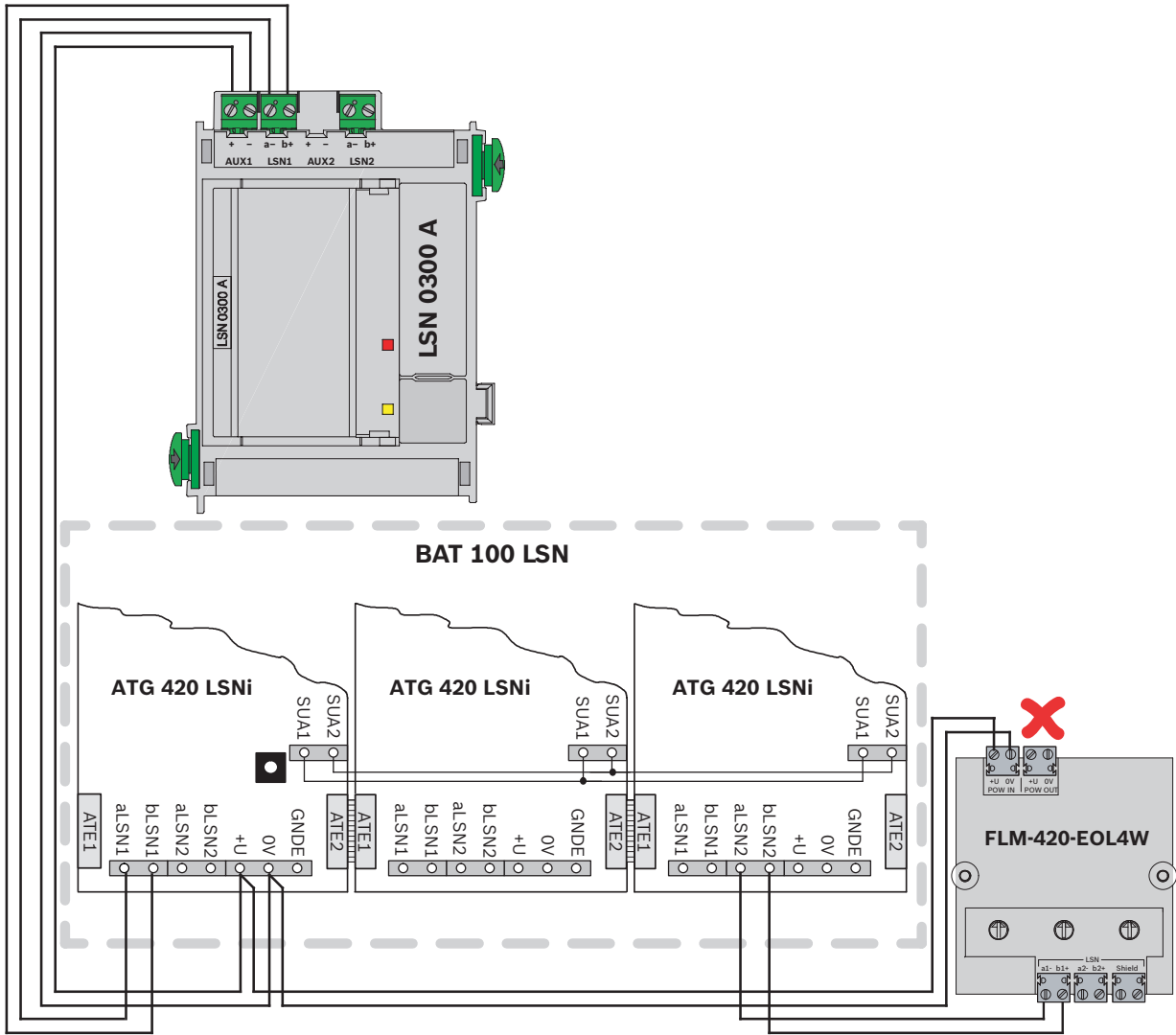




BAT 100 LSN
ATG 420 LSNi

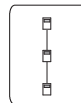


ELS VdS 2489

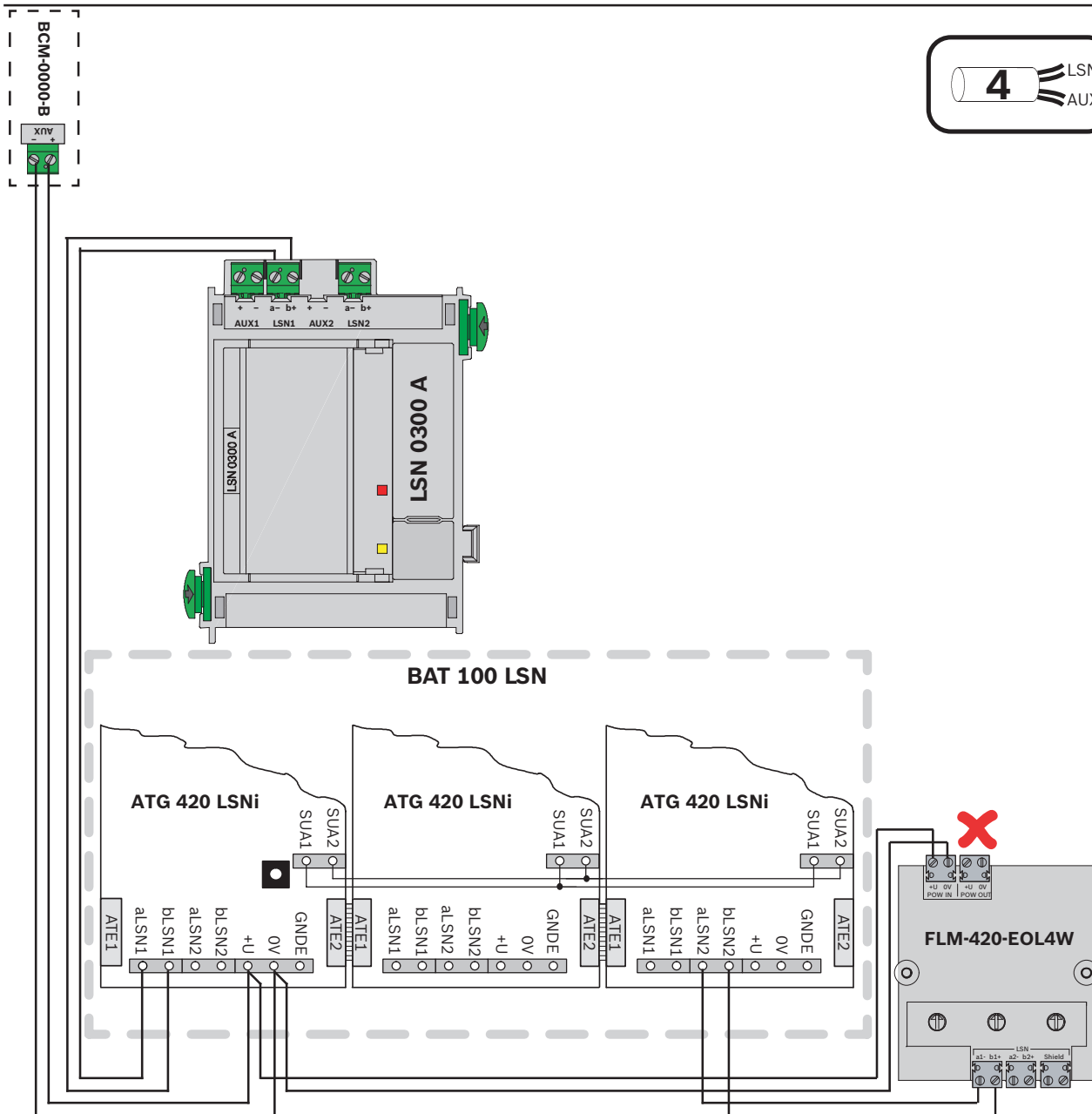
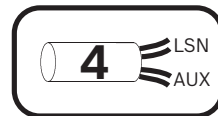




BAT 100 LSN
ATG 420 LSNi

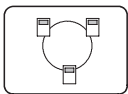


ELS VdS 2489

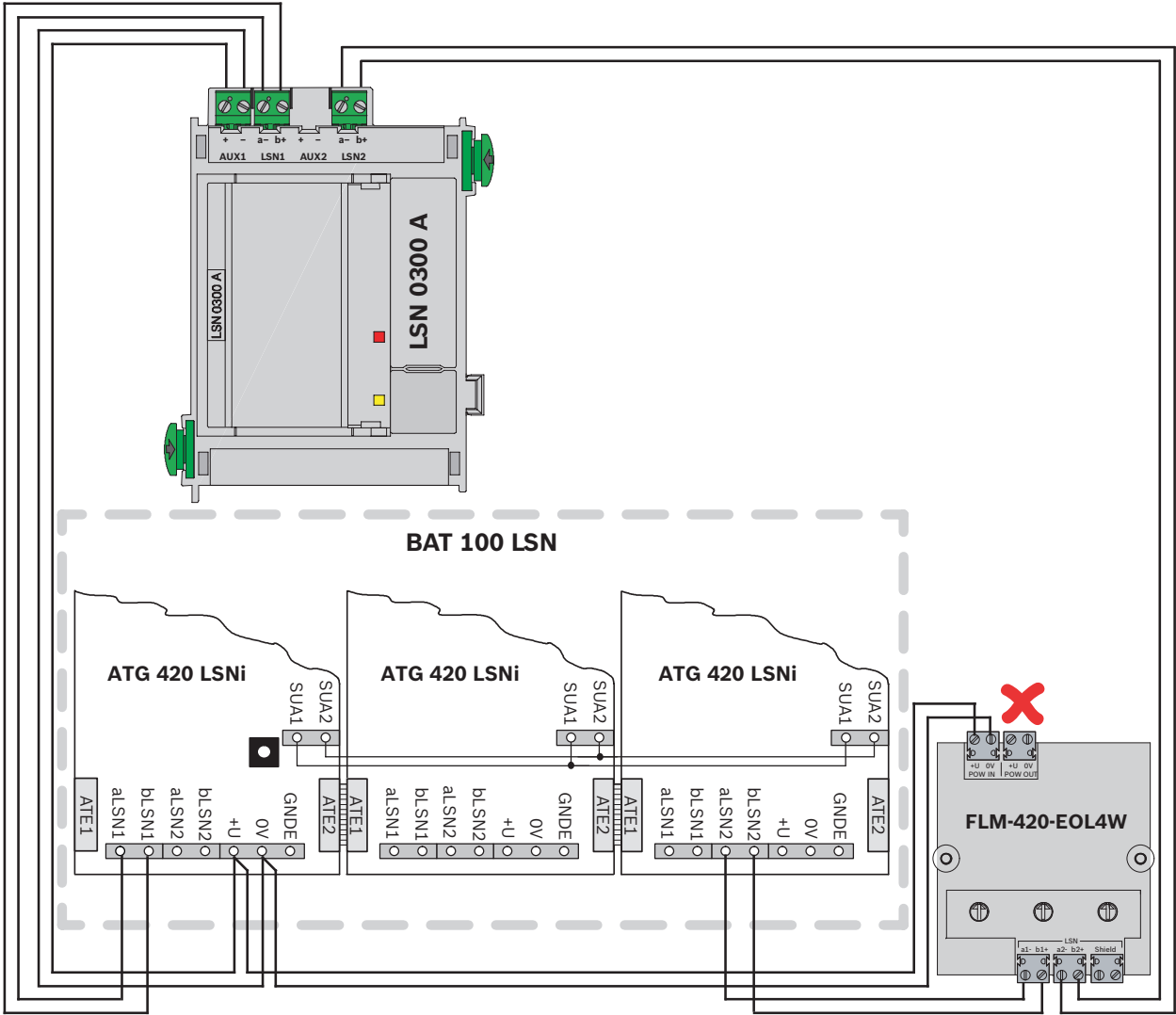




BAT 100 LSN
ATG 420 LSNi

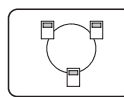


ELS VdS 2489

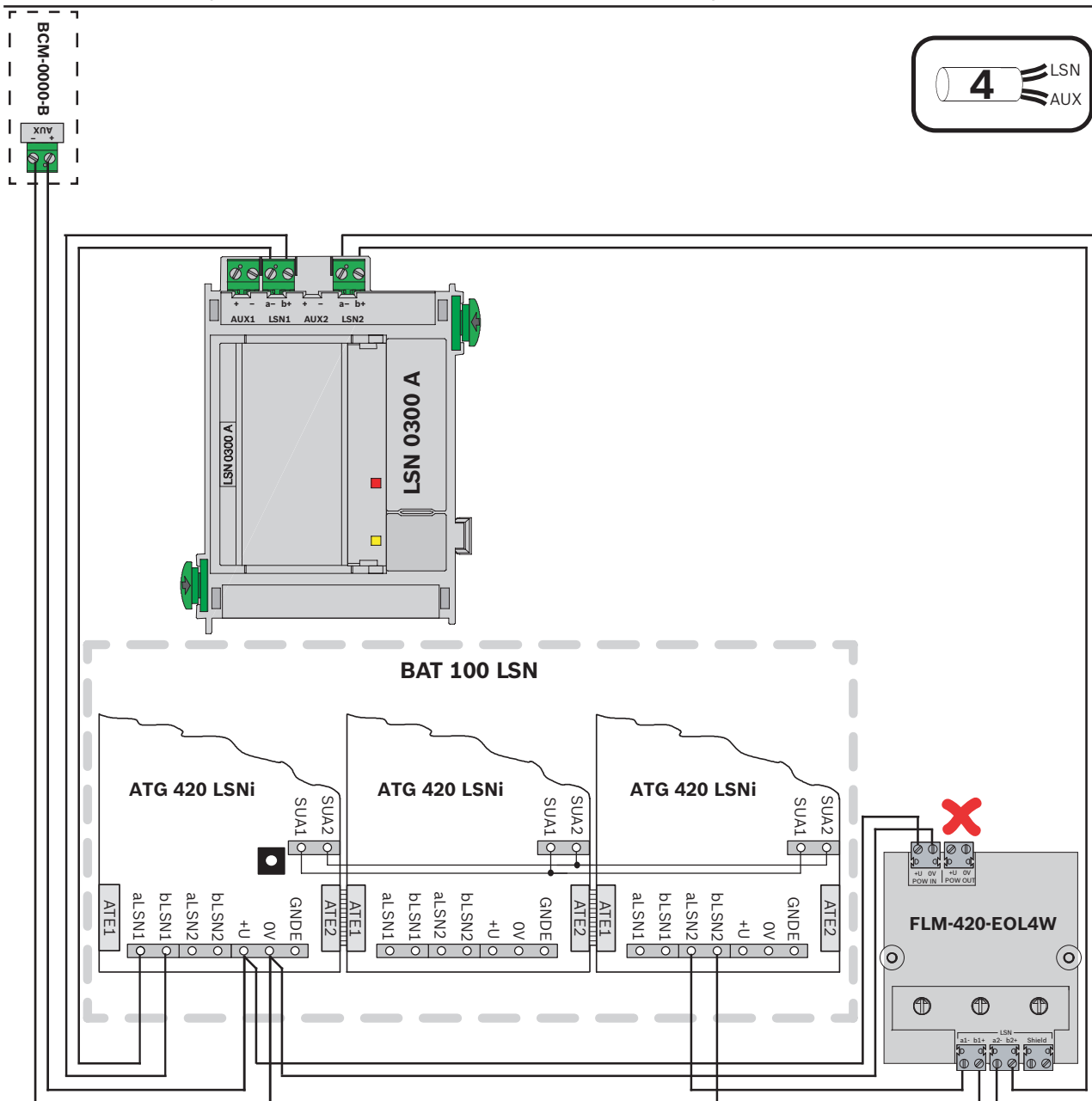


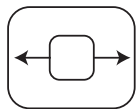


BAT 100 LSN
ATG 420 LSNi

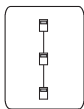


ELS VdS 2489

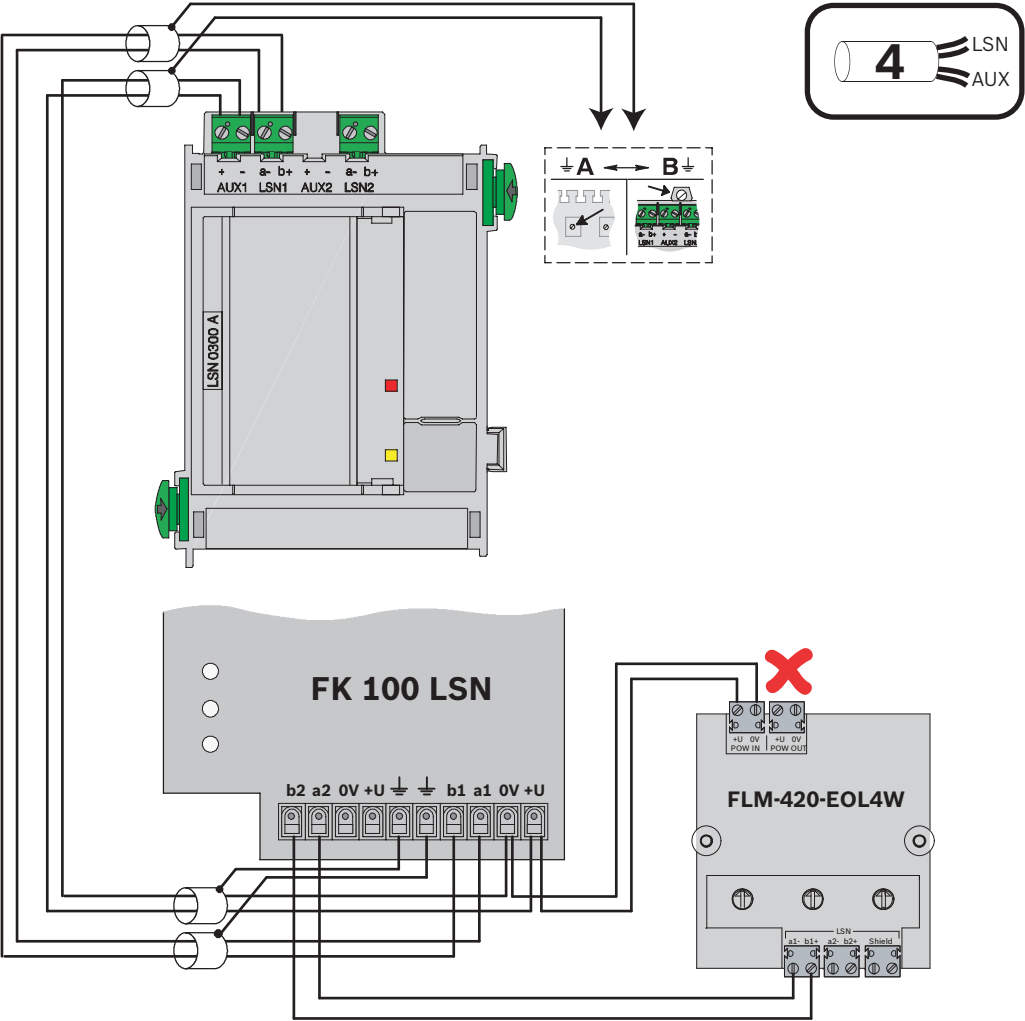
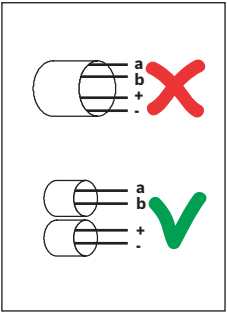


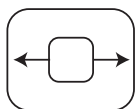
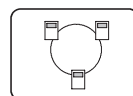
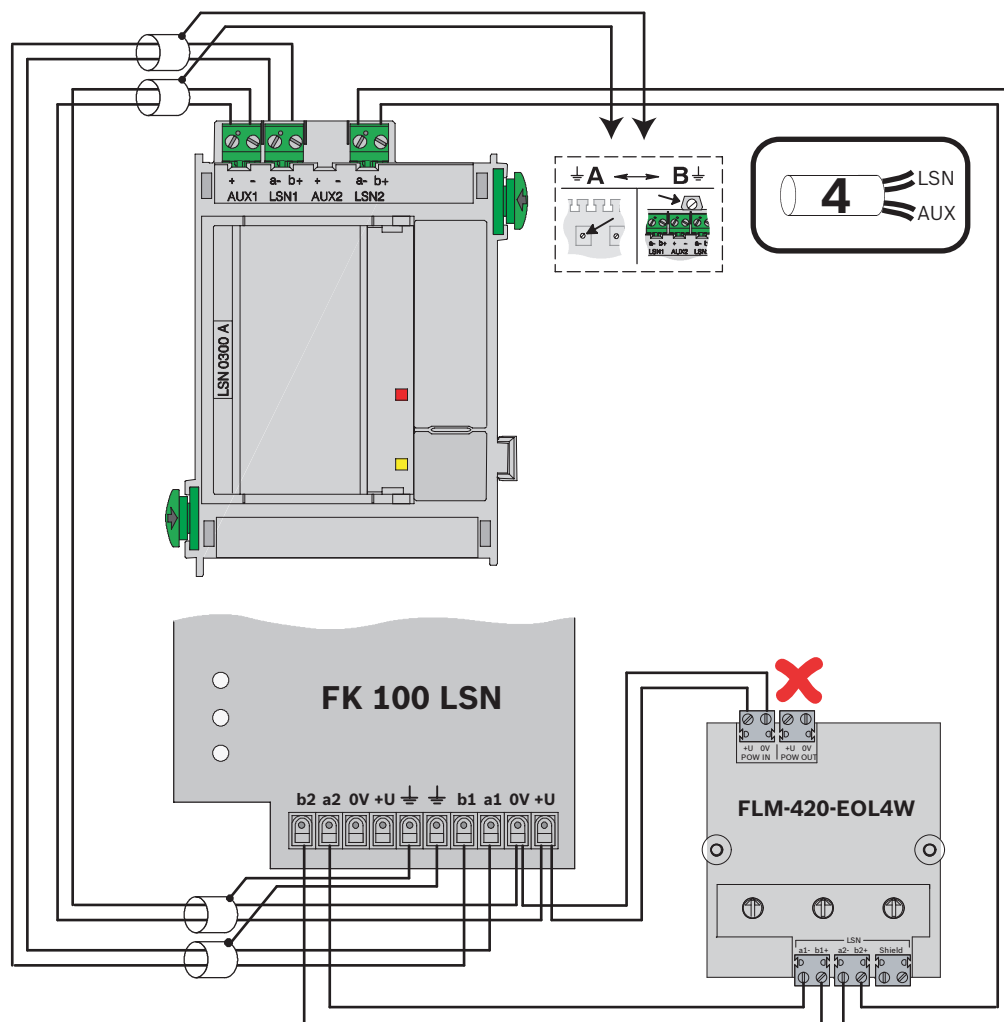
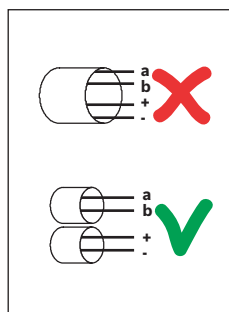


FK 100 LSN



ELS VdS 2489



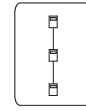
**FK 100 LSN****ELS VdS 2489**

3.5.2

FLM-420/4-CON-S/D

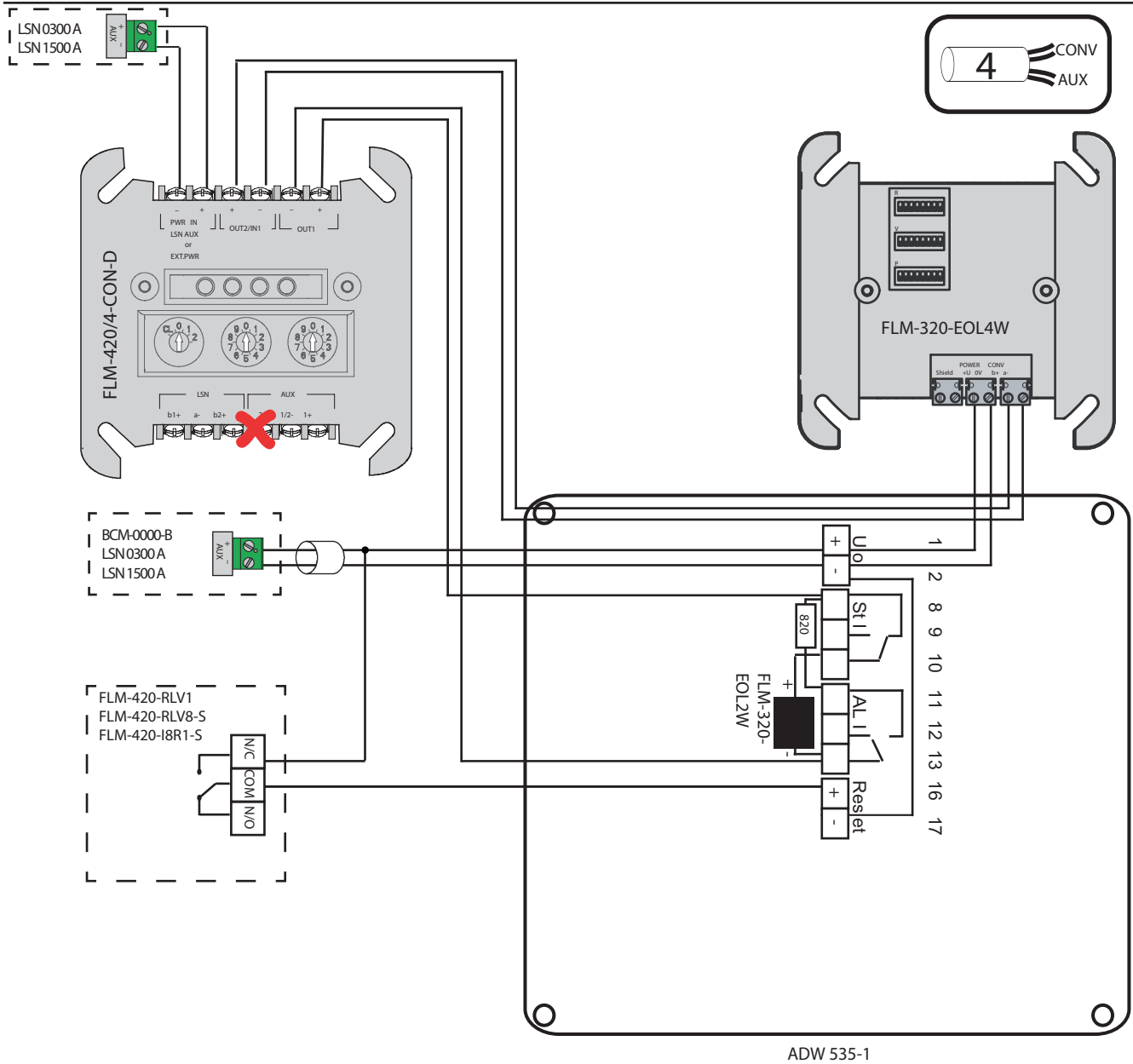


ADW 535-1

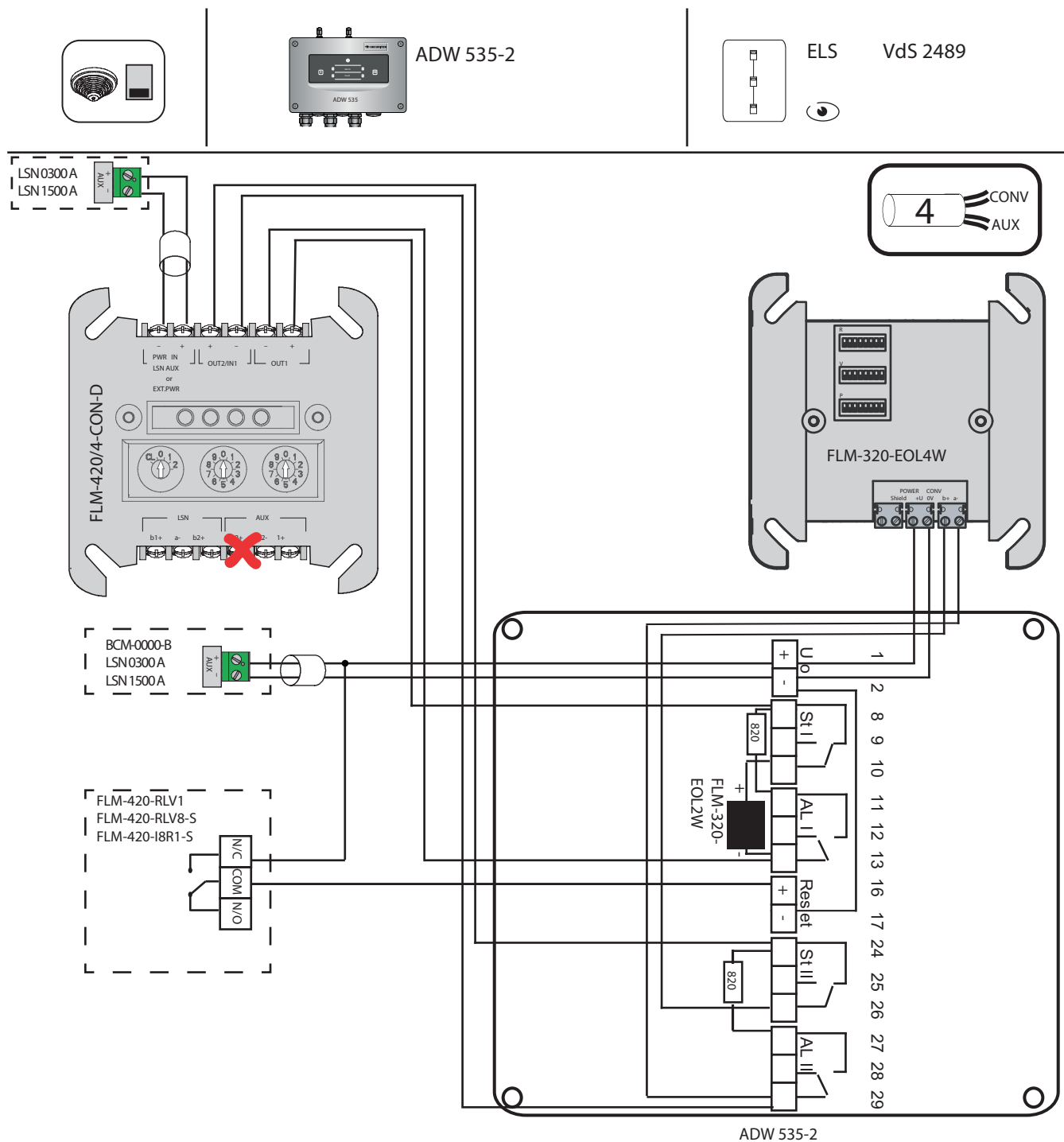


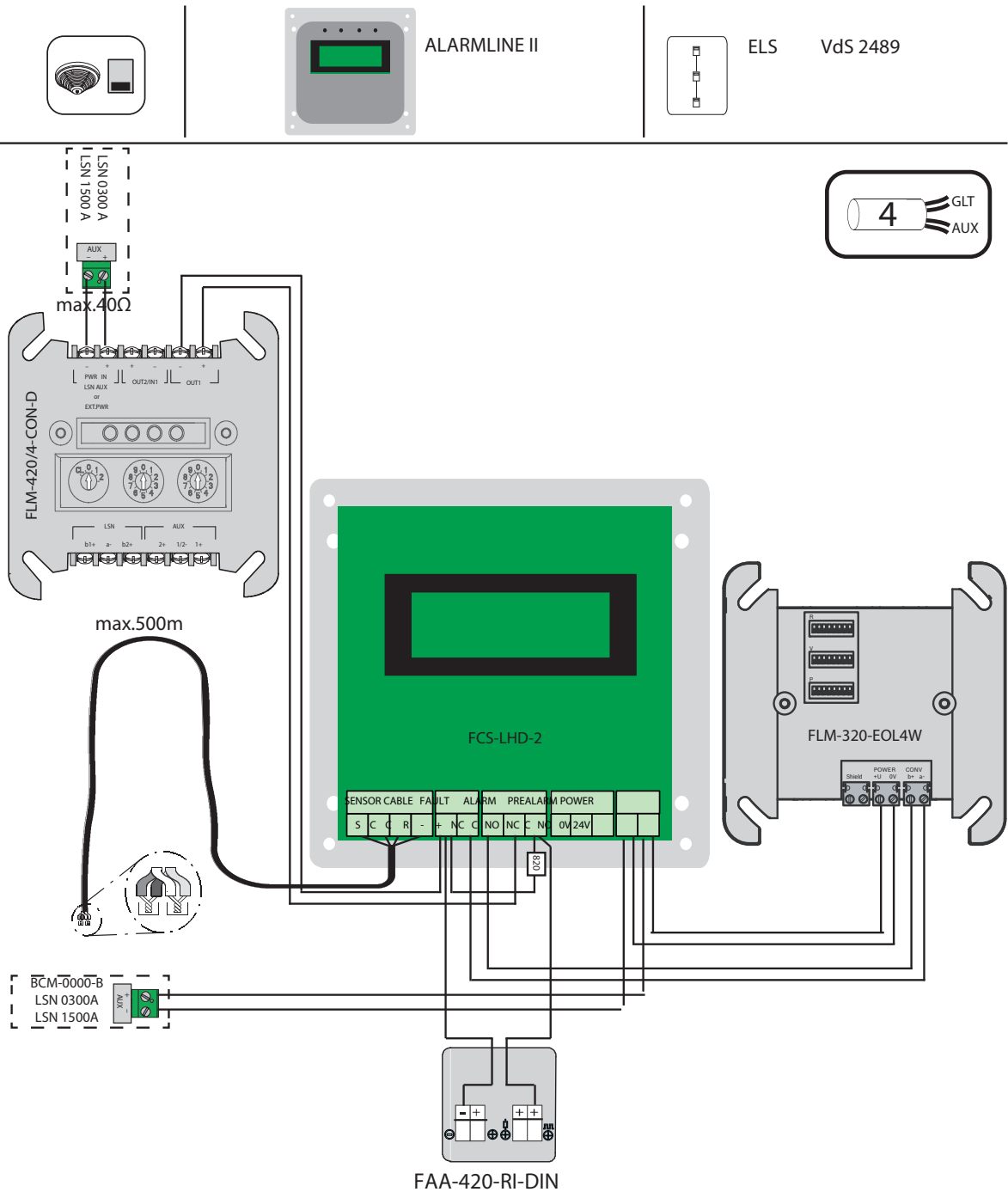
ELS

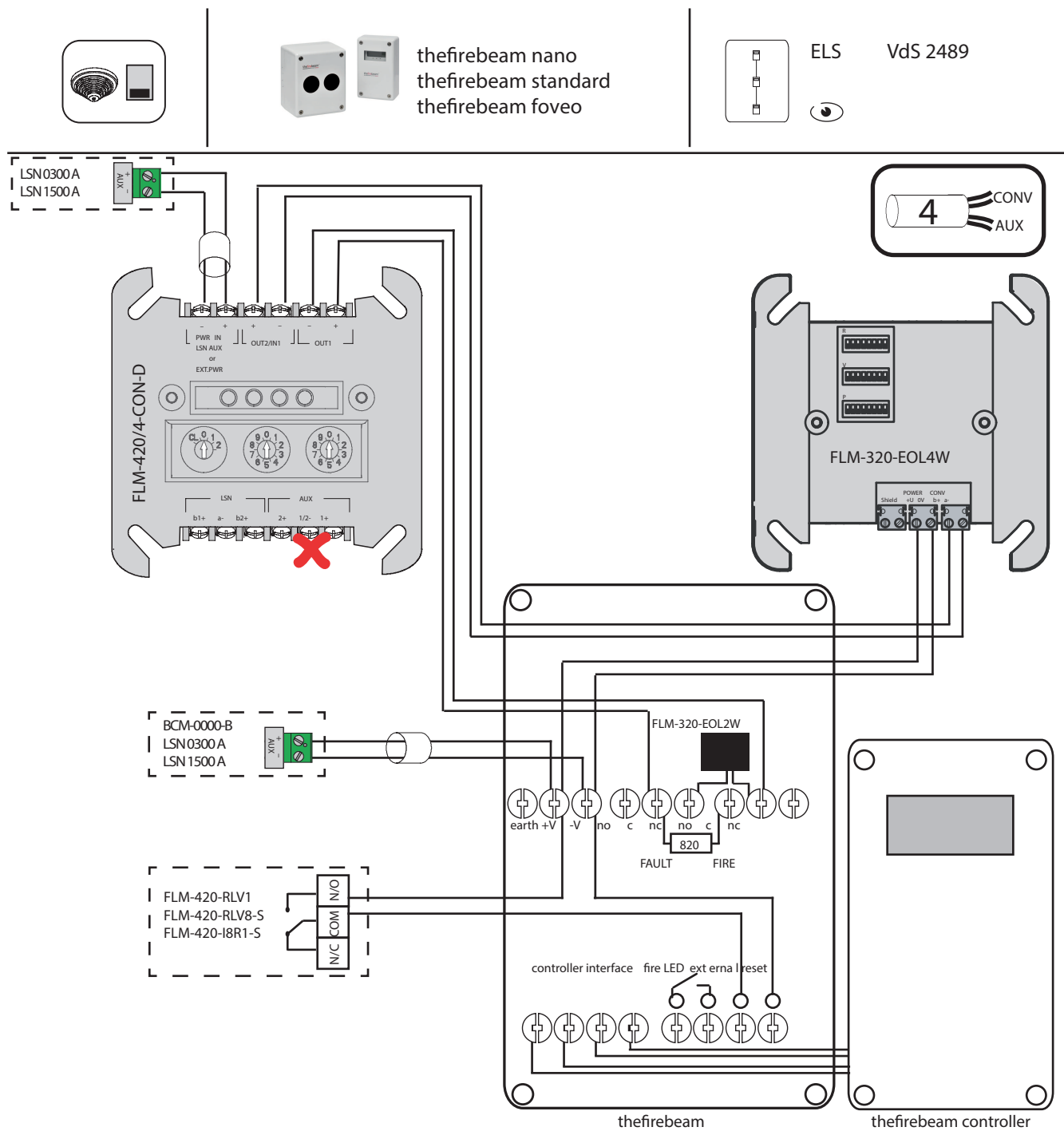
VdS 2489

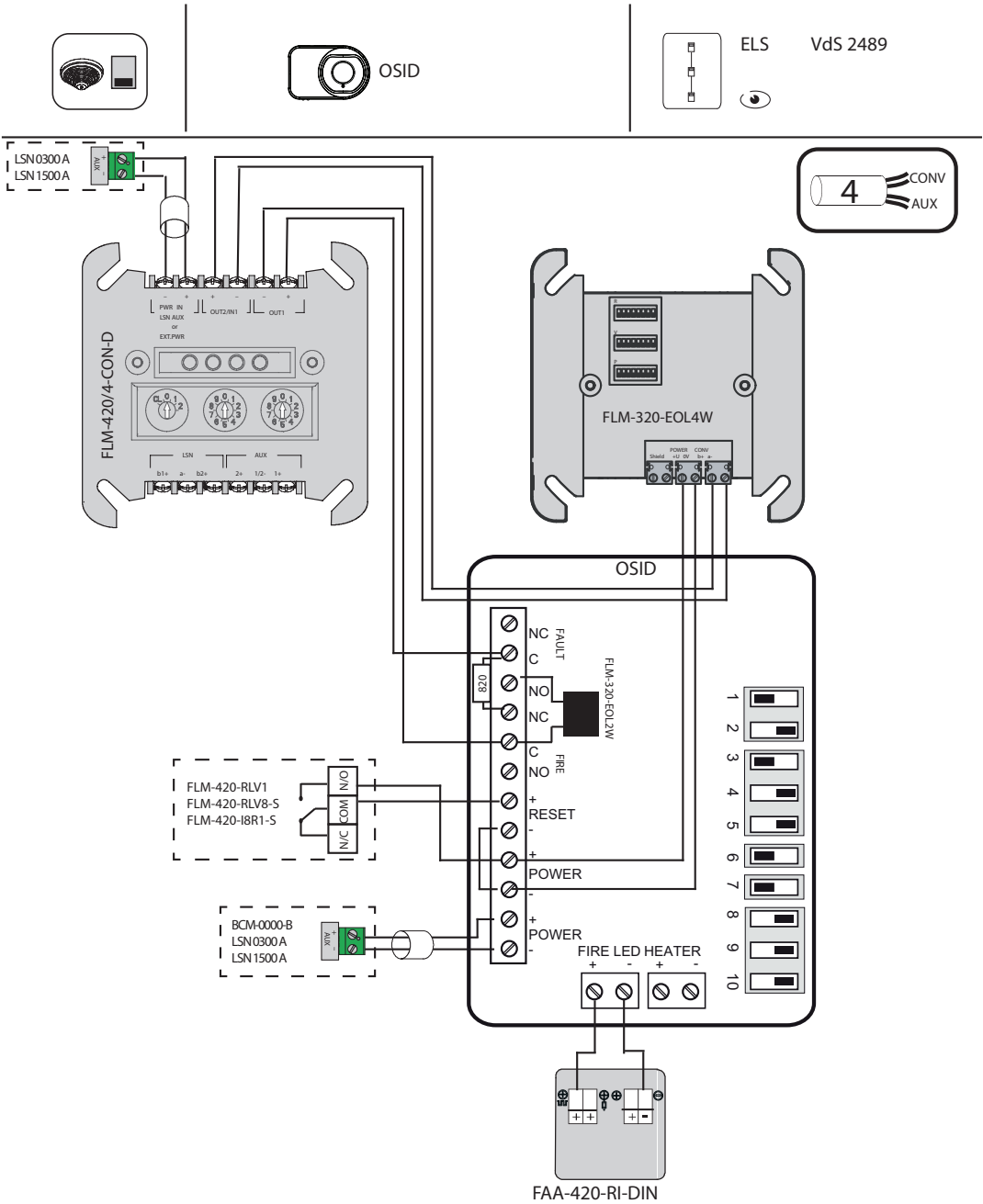


ADW 535-1



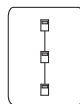








ASD 532

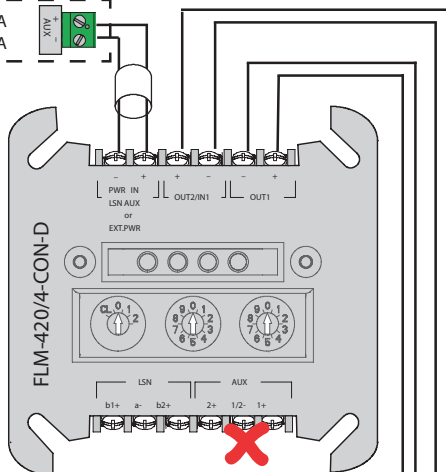


ELS

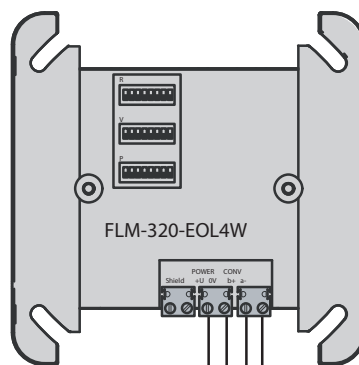
VdS 2489



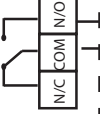
LSN 0300 A
LSN 1500 A



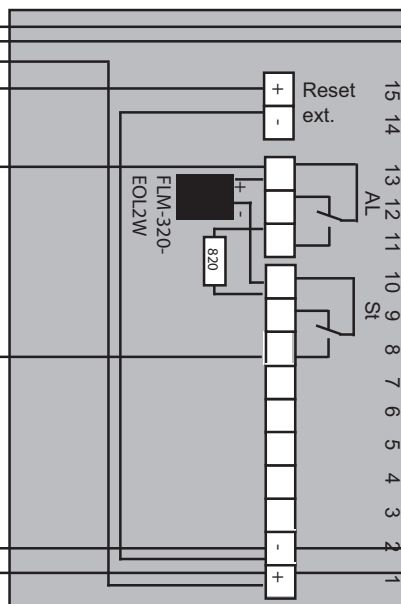
4 CONV
AUX



FLM-420-RLV1
FLM-420-RLV8-S
FLM-420-I8R1-S



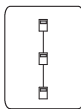
BCM-0000-B
LSN 0300 A
LSN 1500 A



ASD 532



ASD 535-1

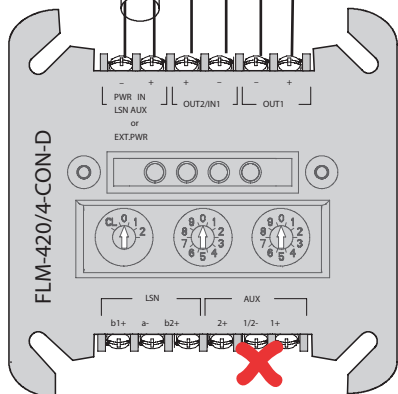


ELS

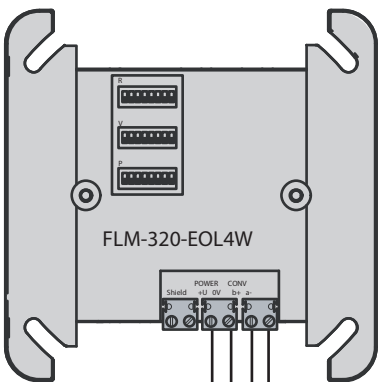
VdS 2489



LSN 0300 A
LSN 1500 A

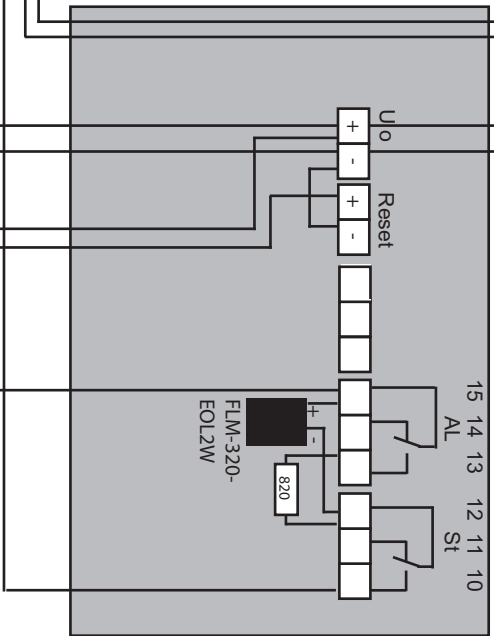


4 CONV
AUX



BCM-0000-B
LSN 0300 A
LSN 1500 A

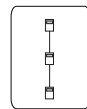
FLM-420-RLV1
FLM-420-RLV8-S
FLM-420-I8R1-S



ASD 535-1

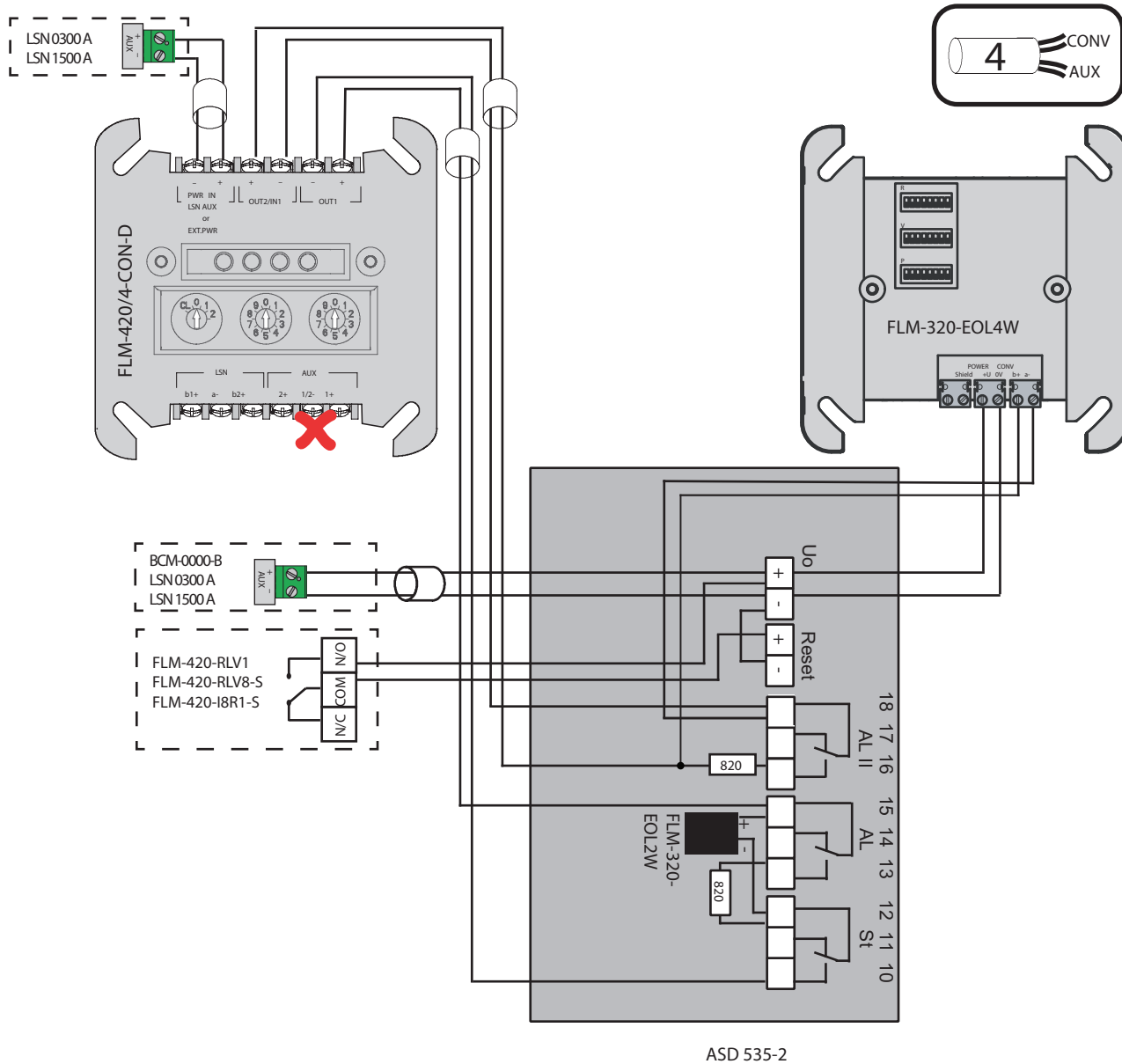


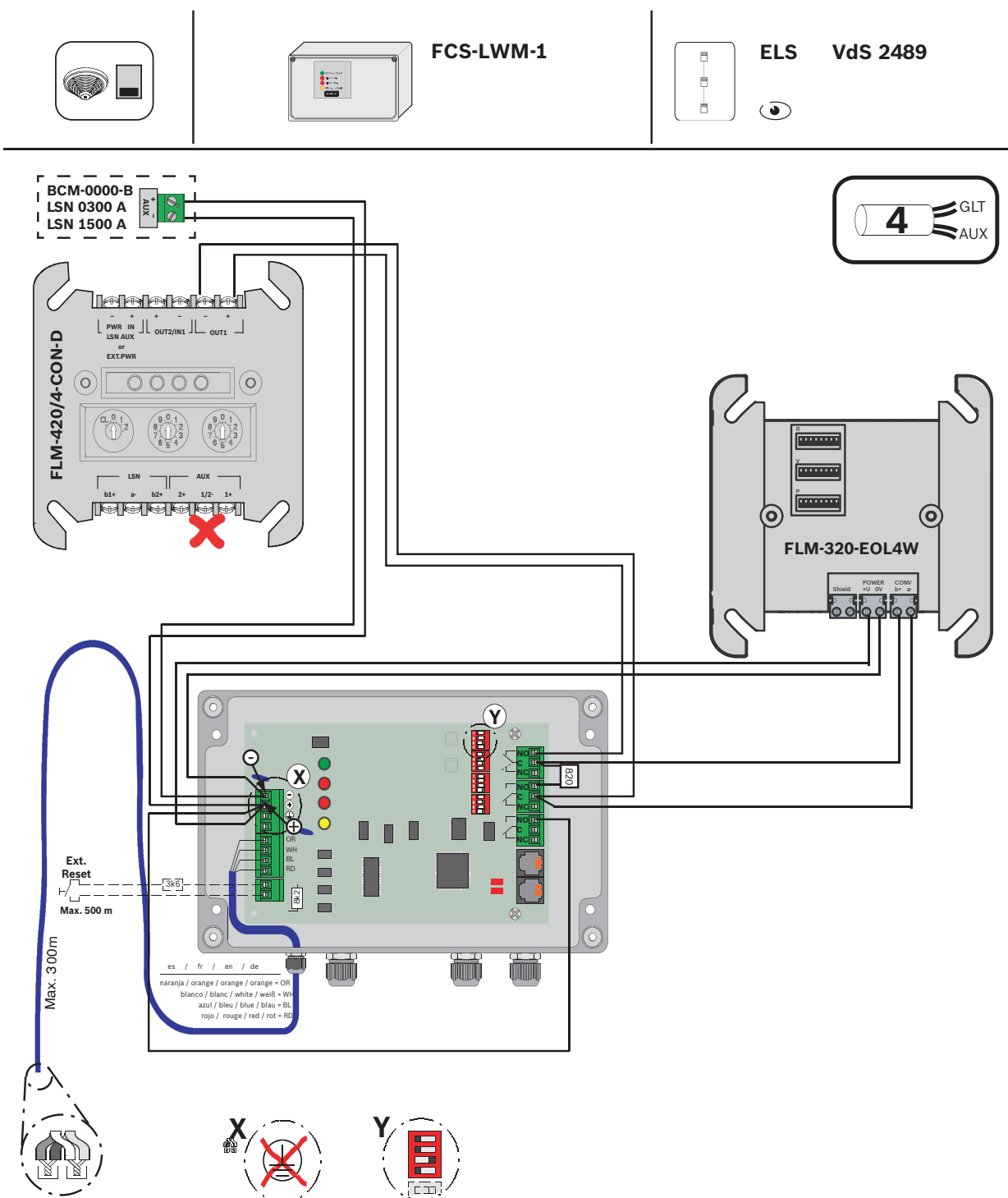
ASD 535-2

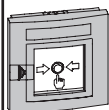
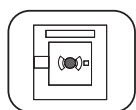


ELS

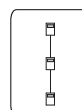
VdS 2489



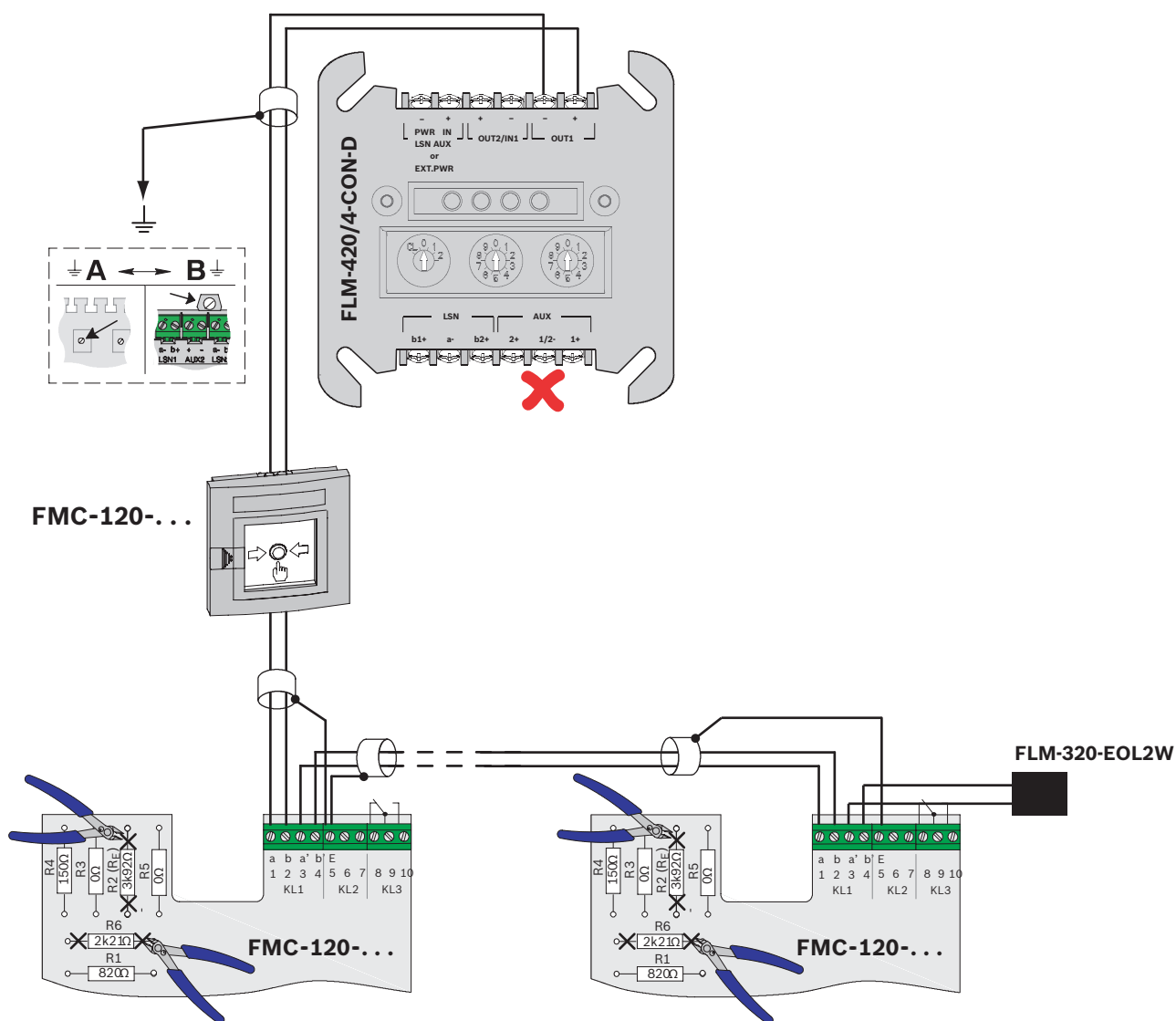


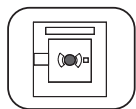
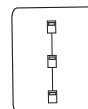
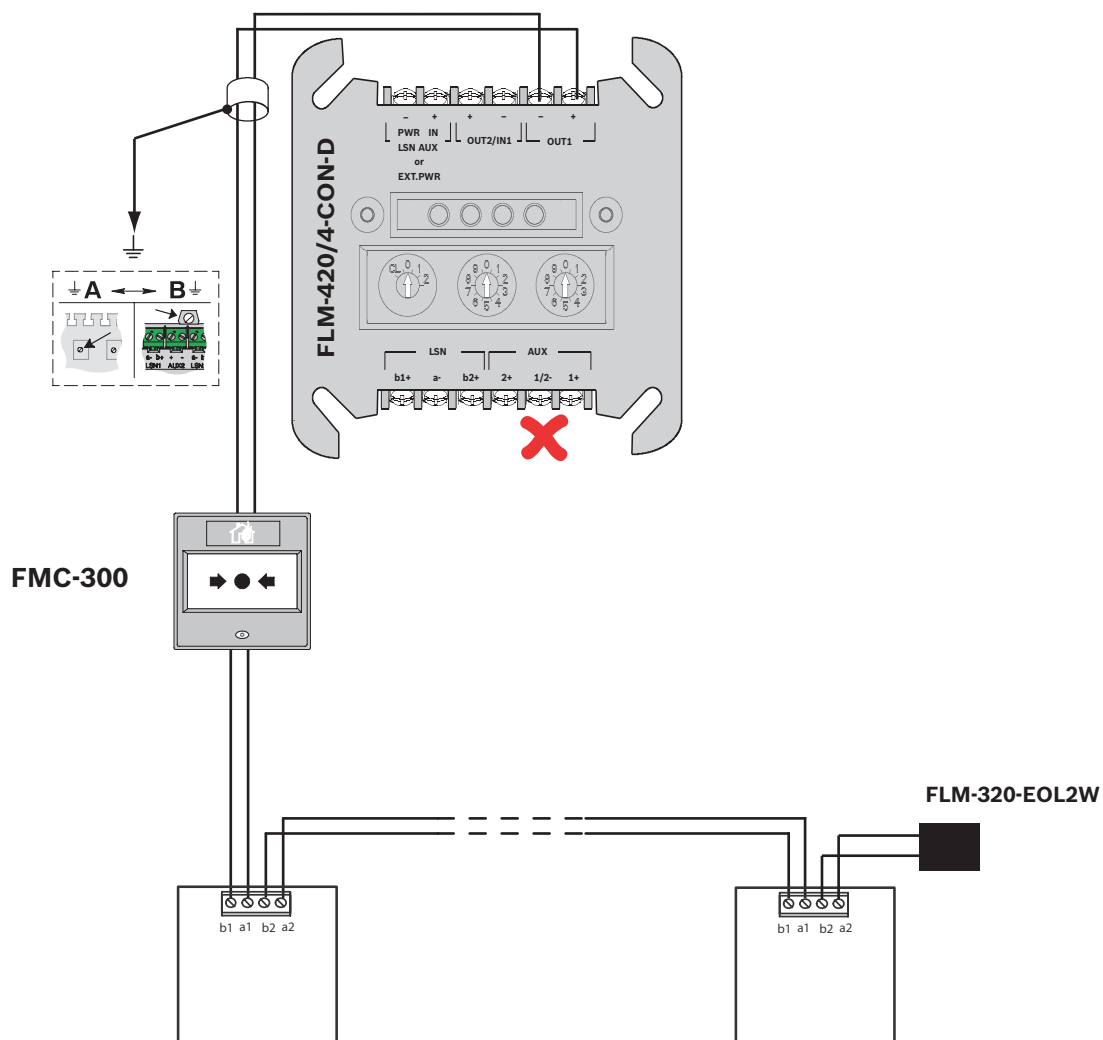


FMC-120-DKM-G-R FMC-120-DKM-G-Y
FMC-120-DKM-H-R FMC-120-EST-G-B
FMC-120-DKM-G-B
FMC-120-DKM-H-B



ELS VdS 2489



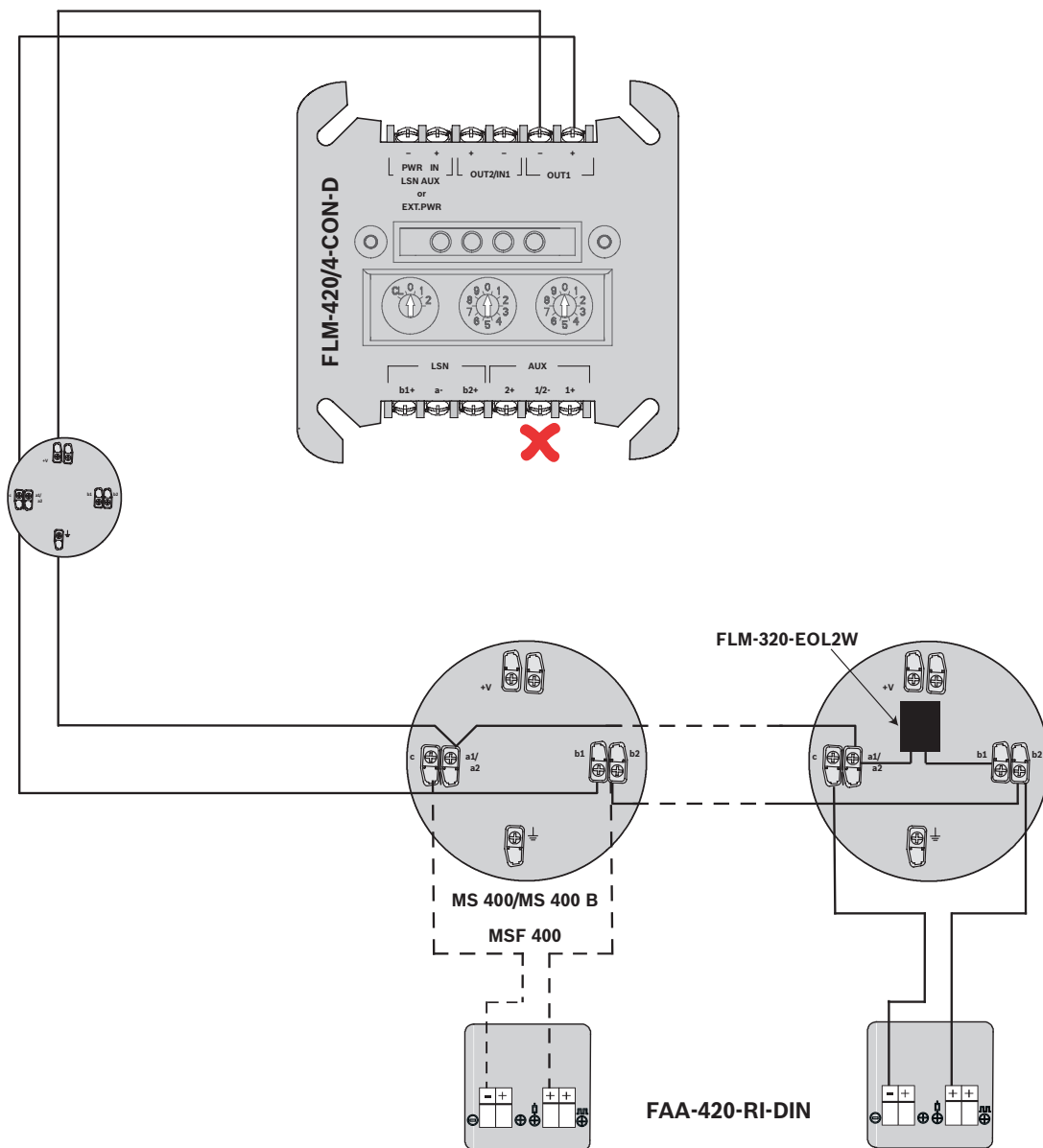
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 FAP-425-DO-R/DOT-R/DOTC-R
 FCH-320-T320/-T320-R470/-T320-FSA
 FCP-O320/-O320-R470
 FCP-OC320/-OC320-R470
 FCP-OT320/-OT320-R470



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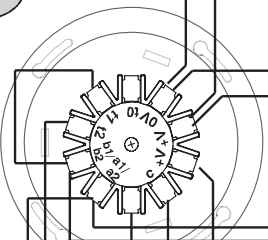
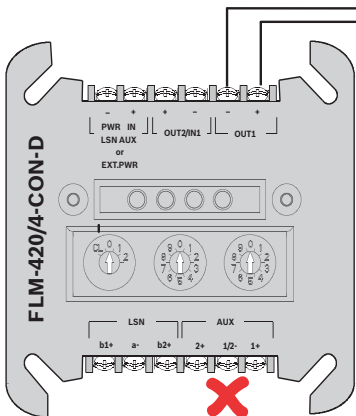
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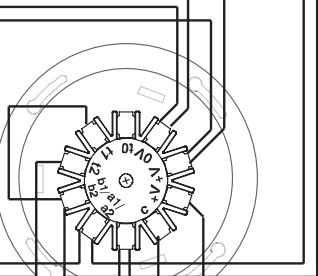
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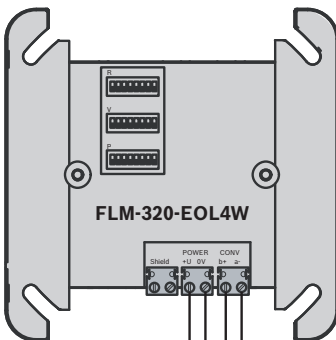
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LSN 0300 A
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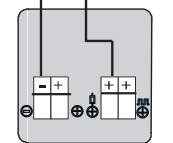
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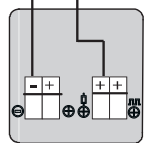
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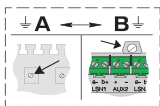
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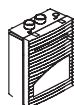


FAA-420-RI-DIN



FAA-420-RI-DIN





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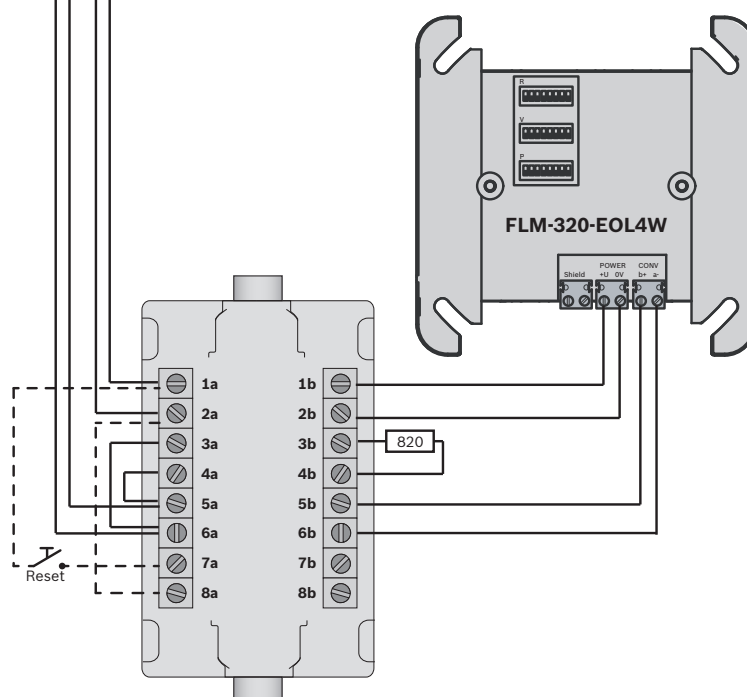
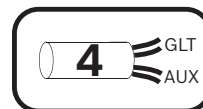
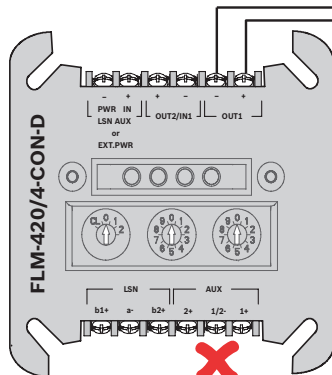


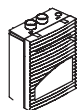
ELS VdS 2489



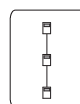
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AUX





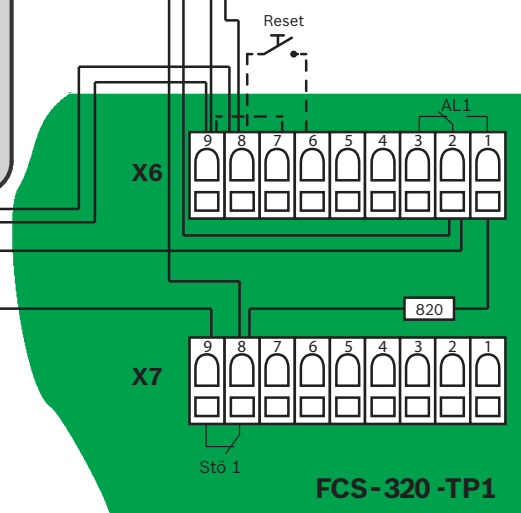
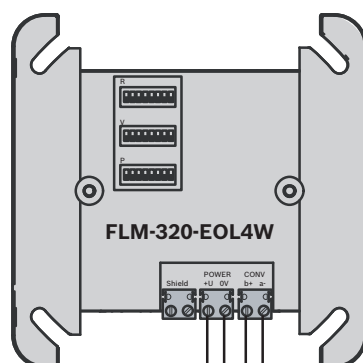
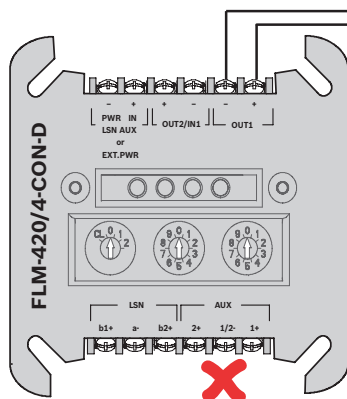
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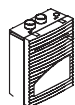


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LSN 0300 A
LSN 1500 A





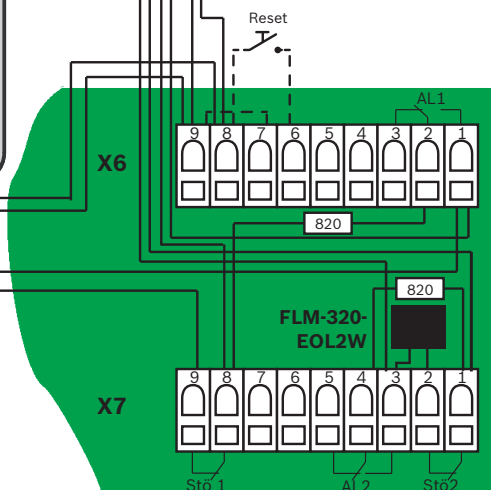
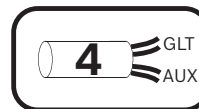
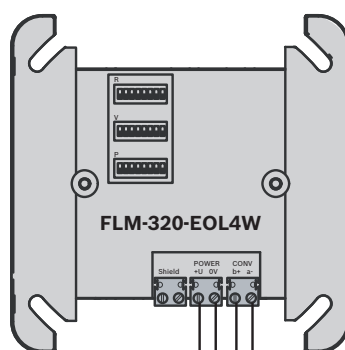
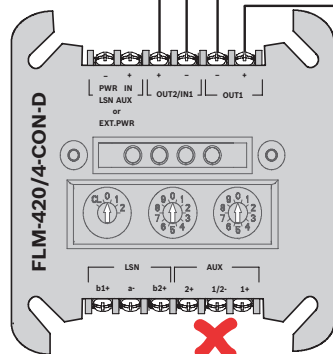
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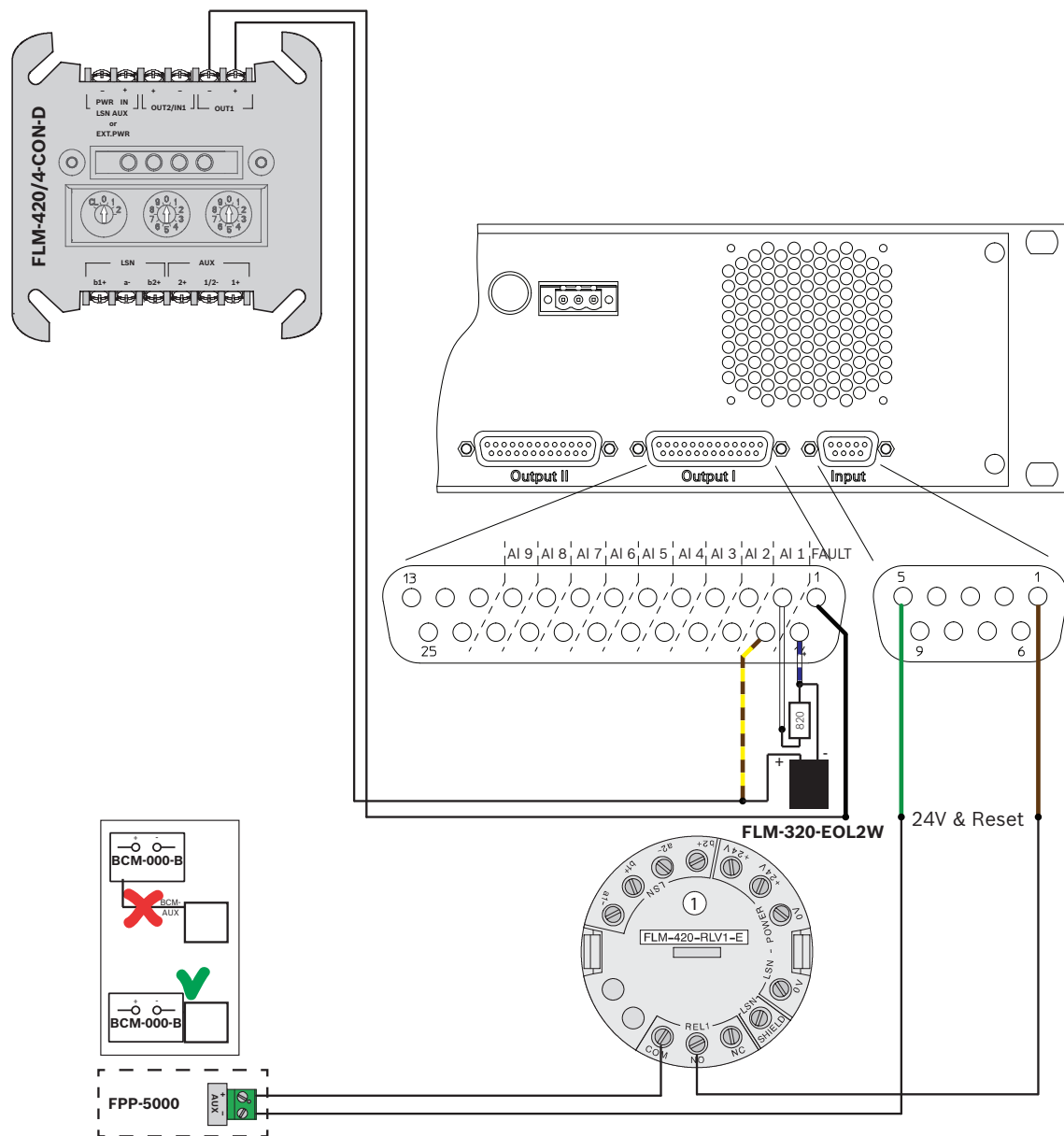


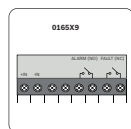
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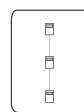
ELS

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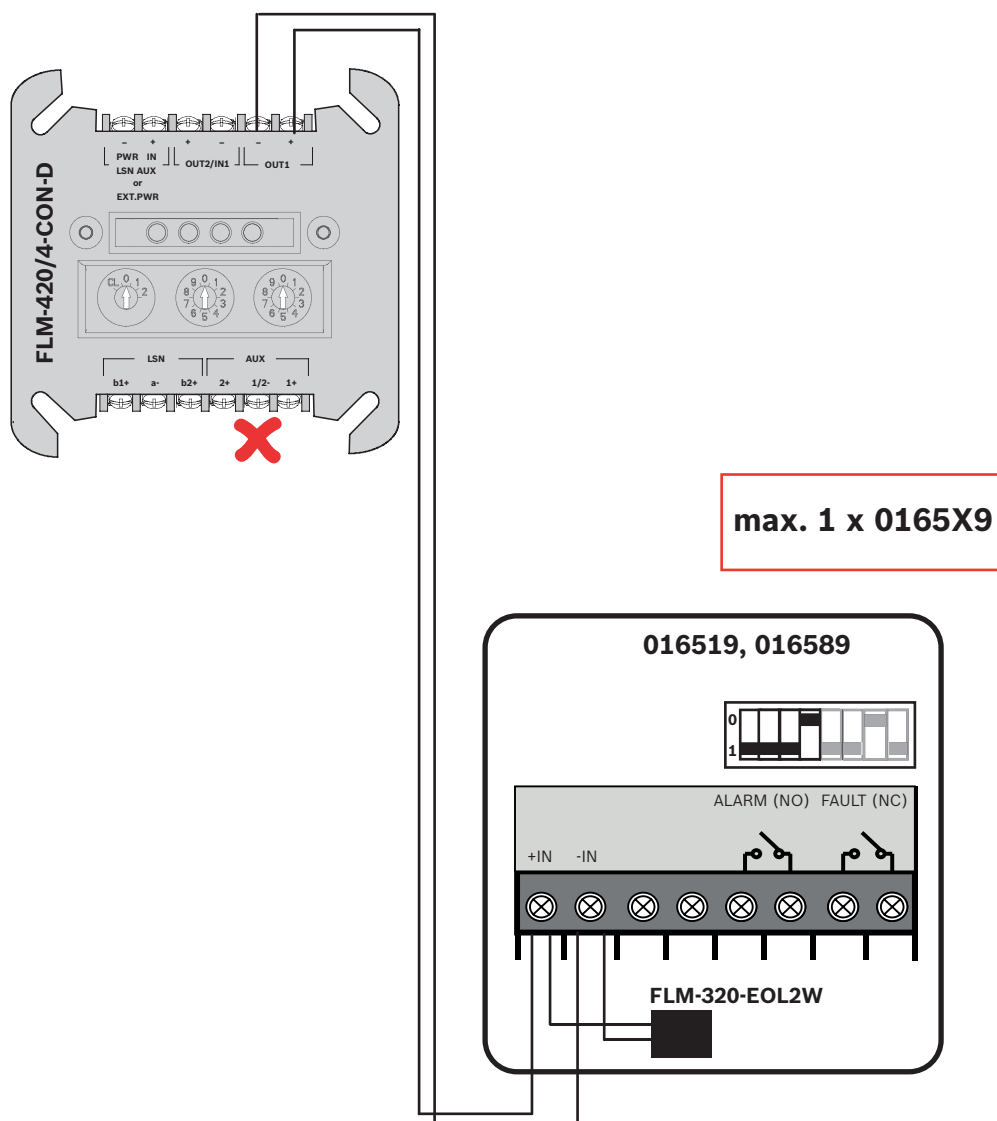


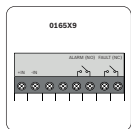


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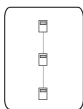


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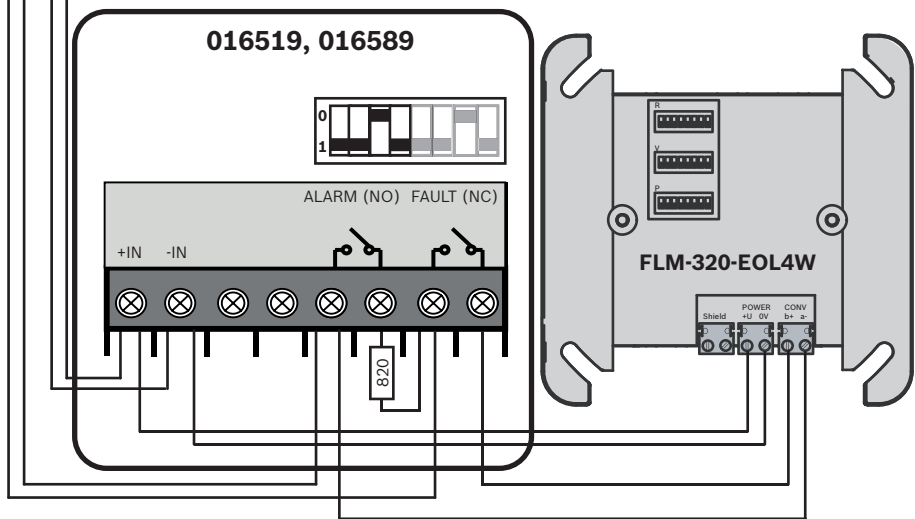
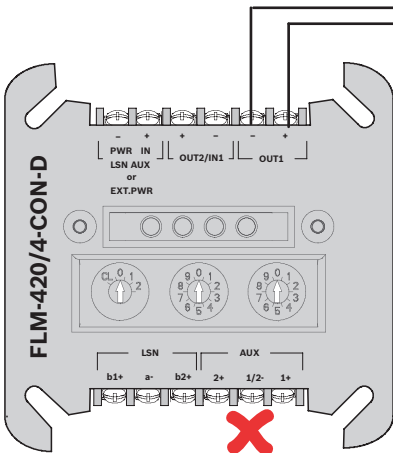
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IR3 Flame Detector

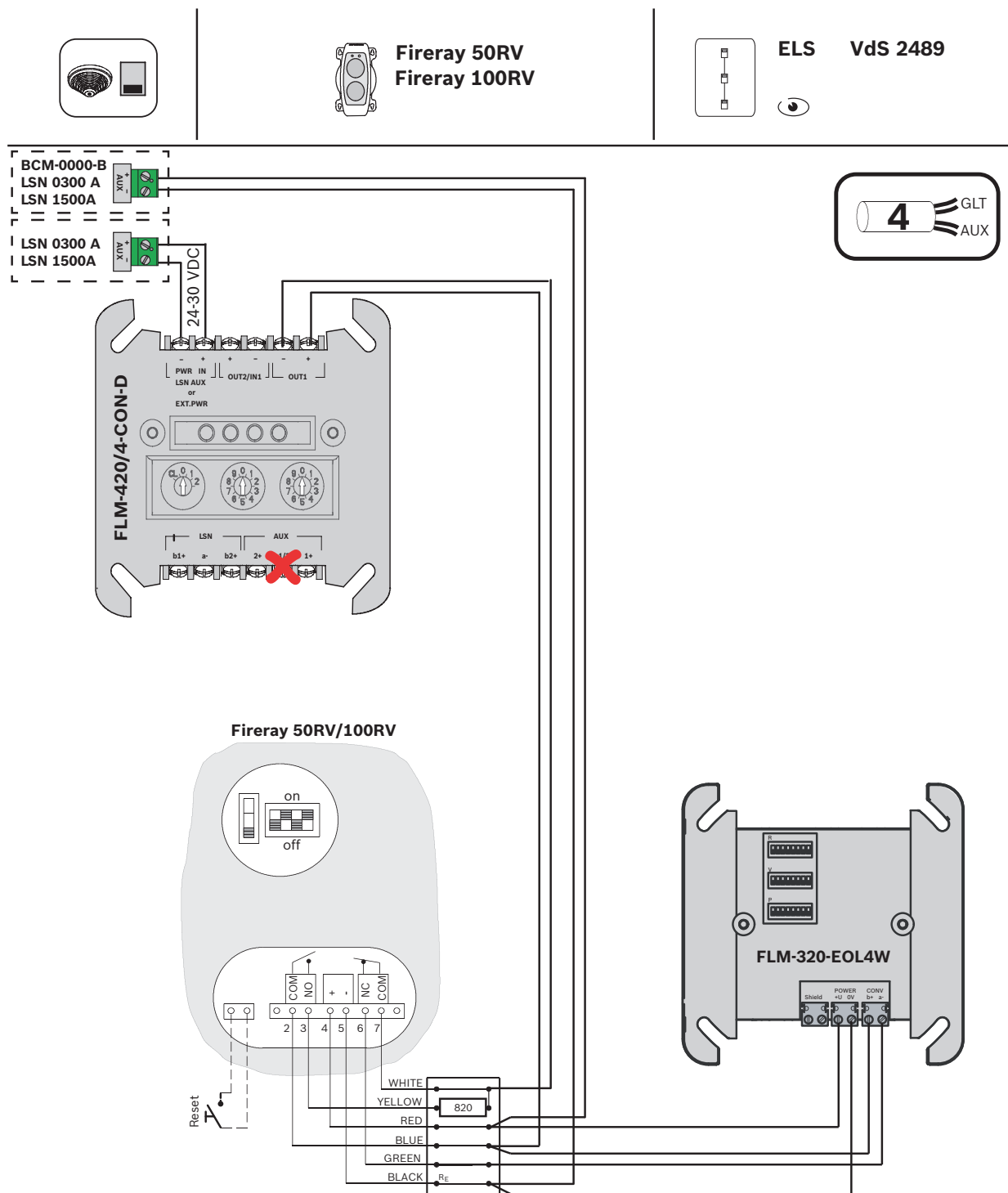


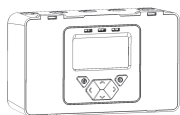
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LSN 0300 A
LSN 1500 A







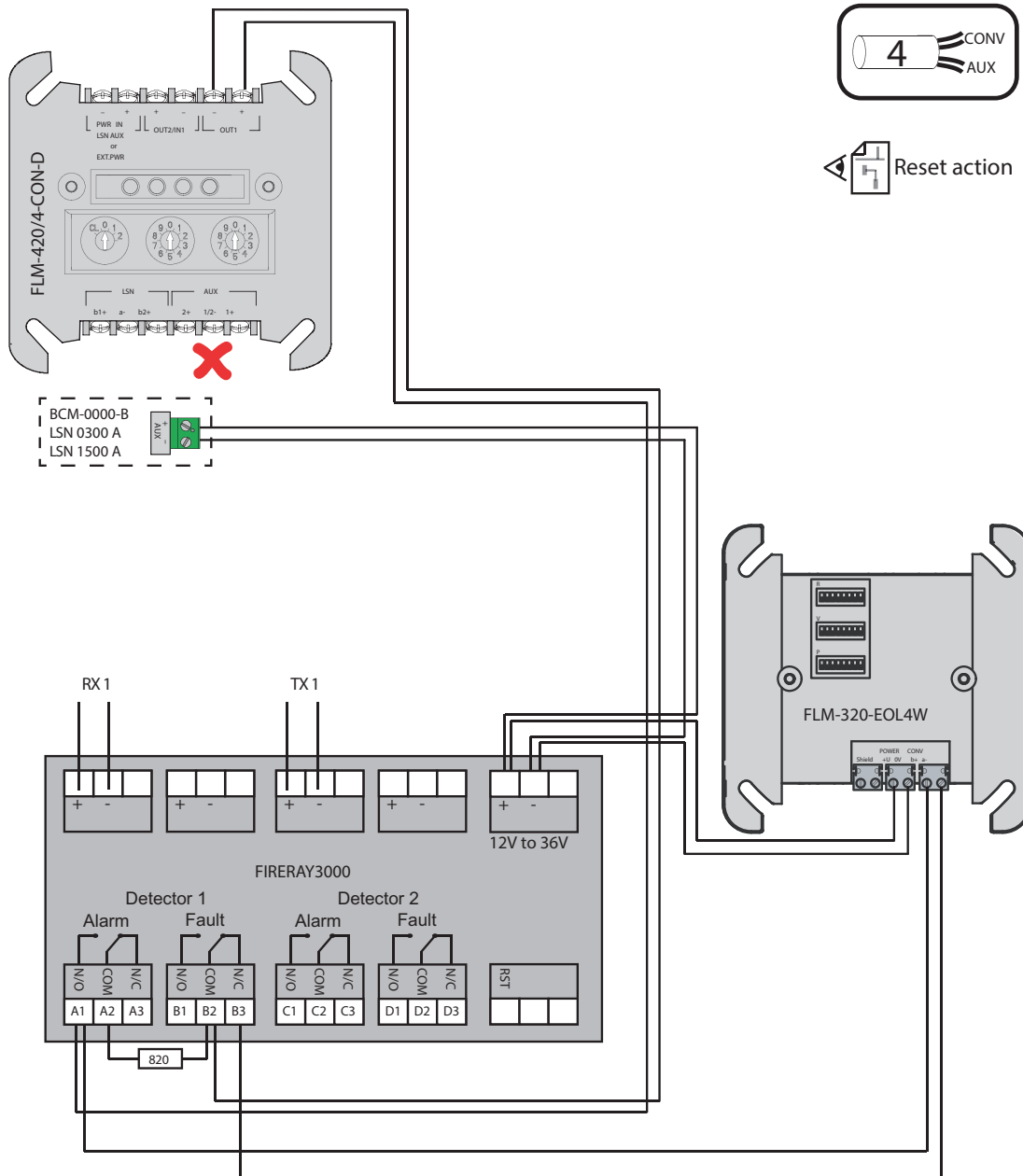
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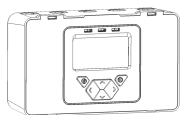
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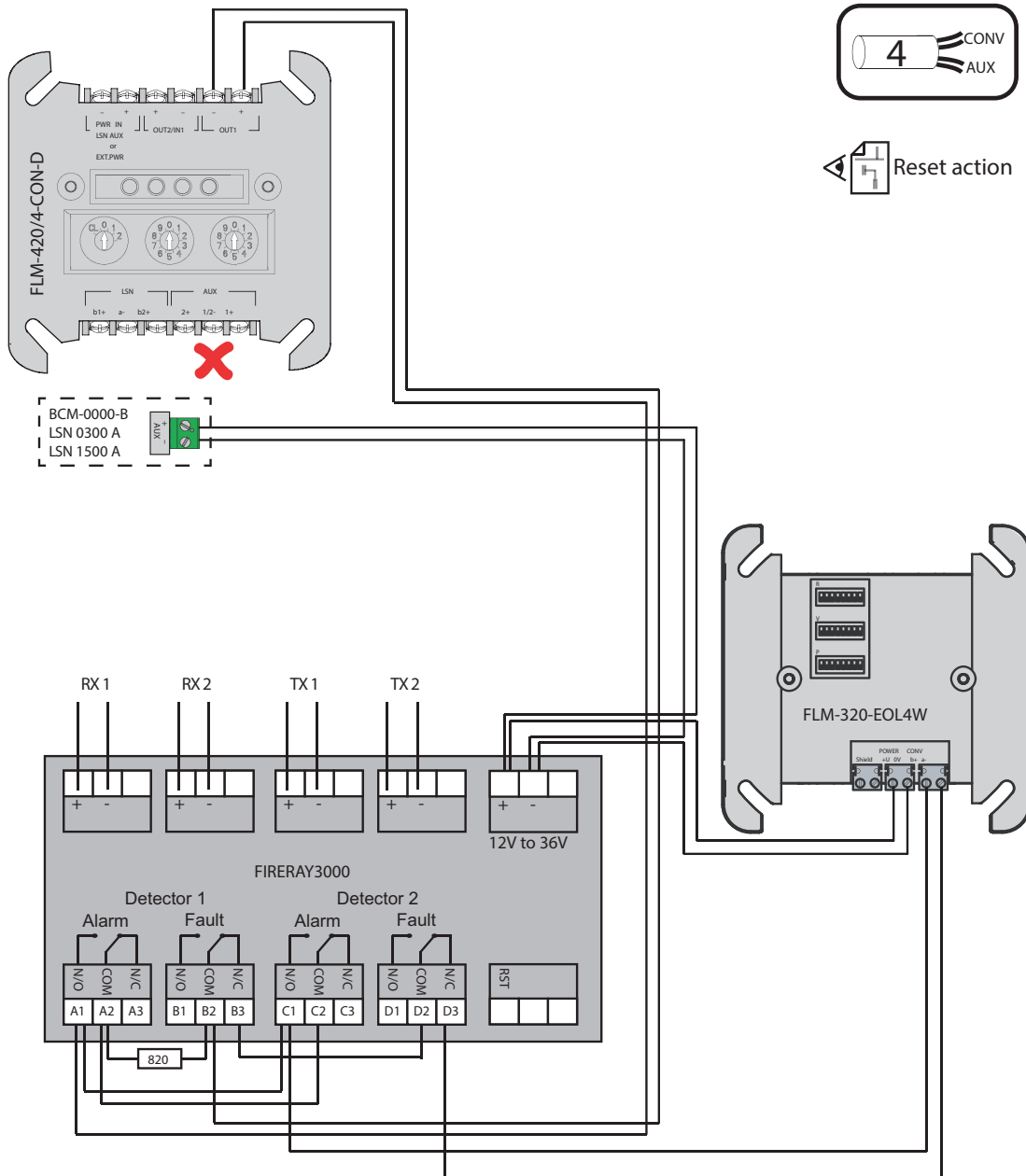
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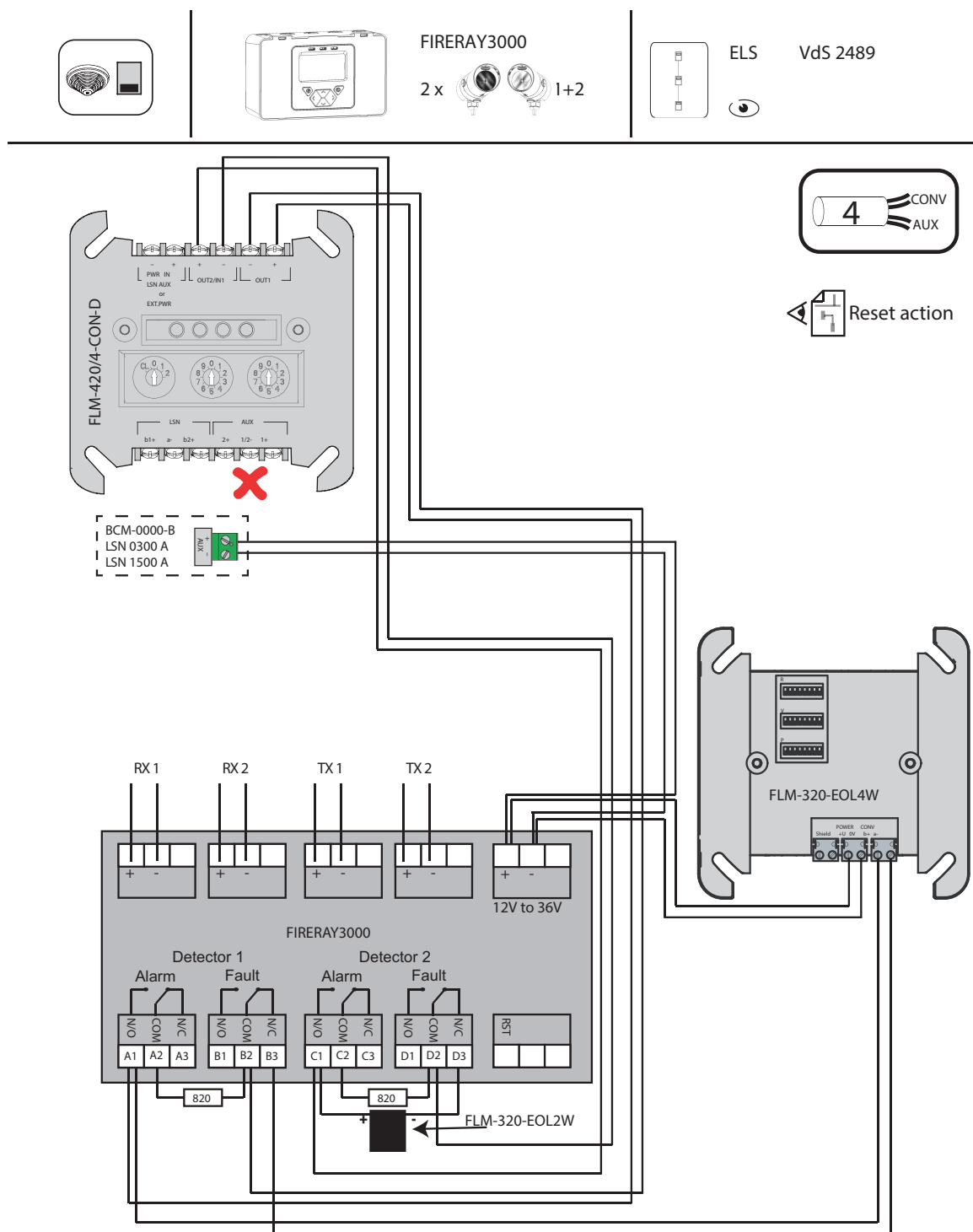
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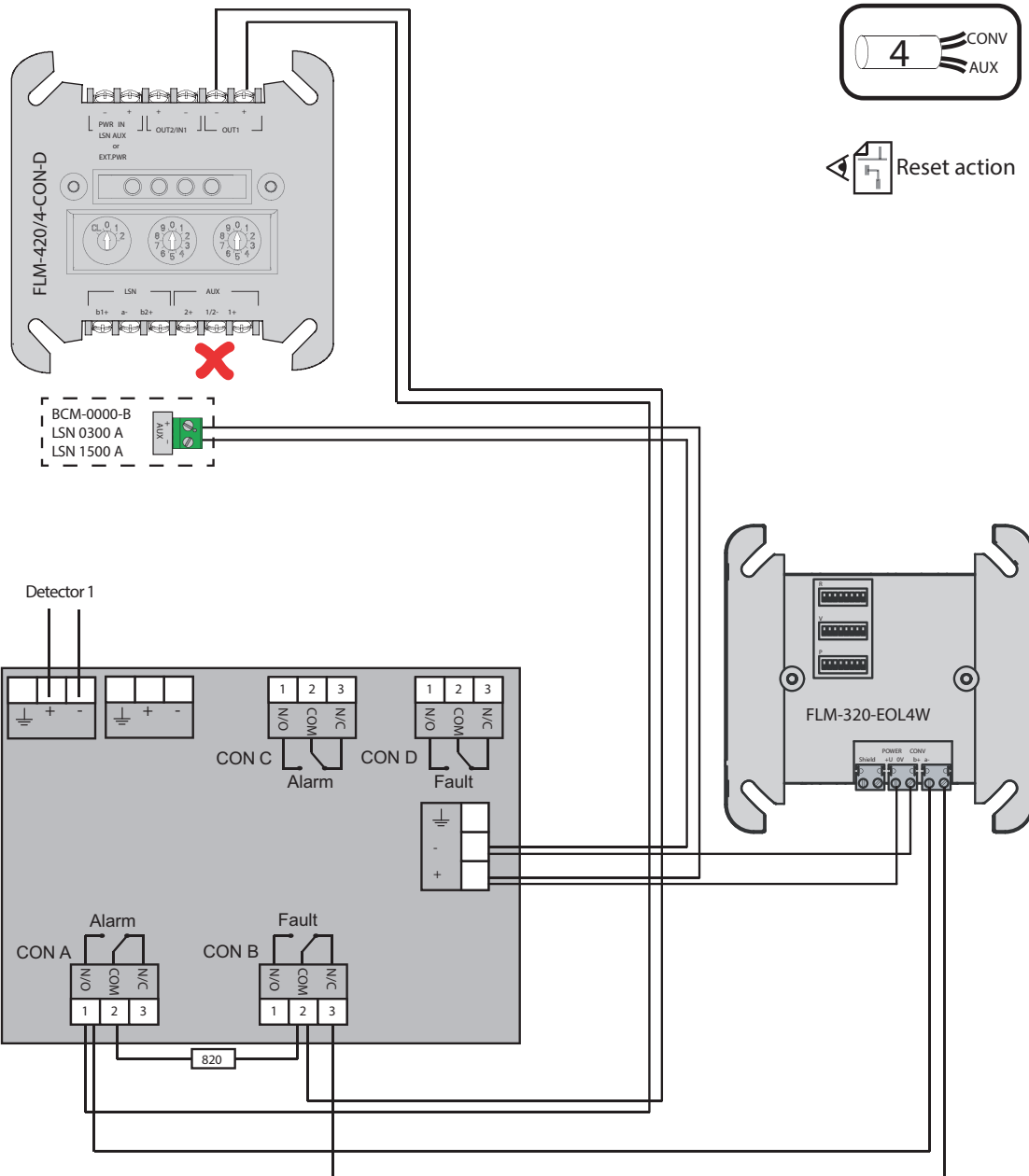
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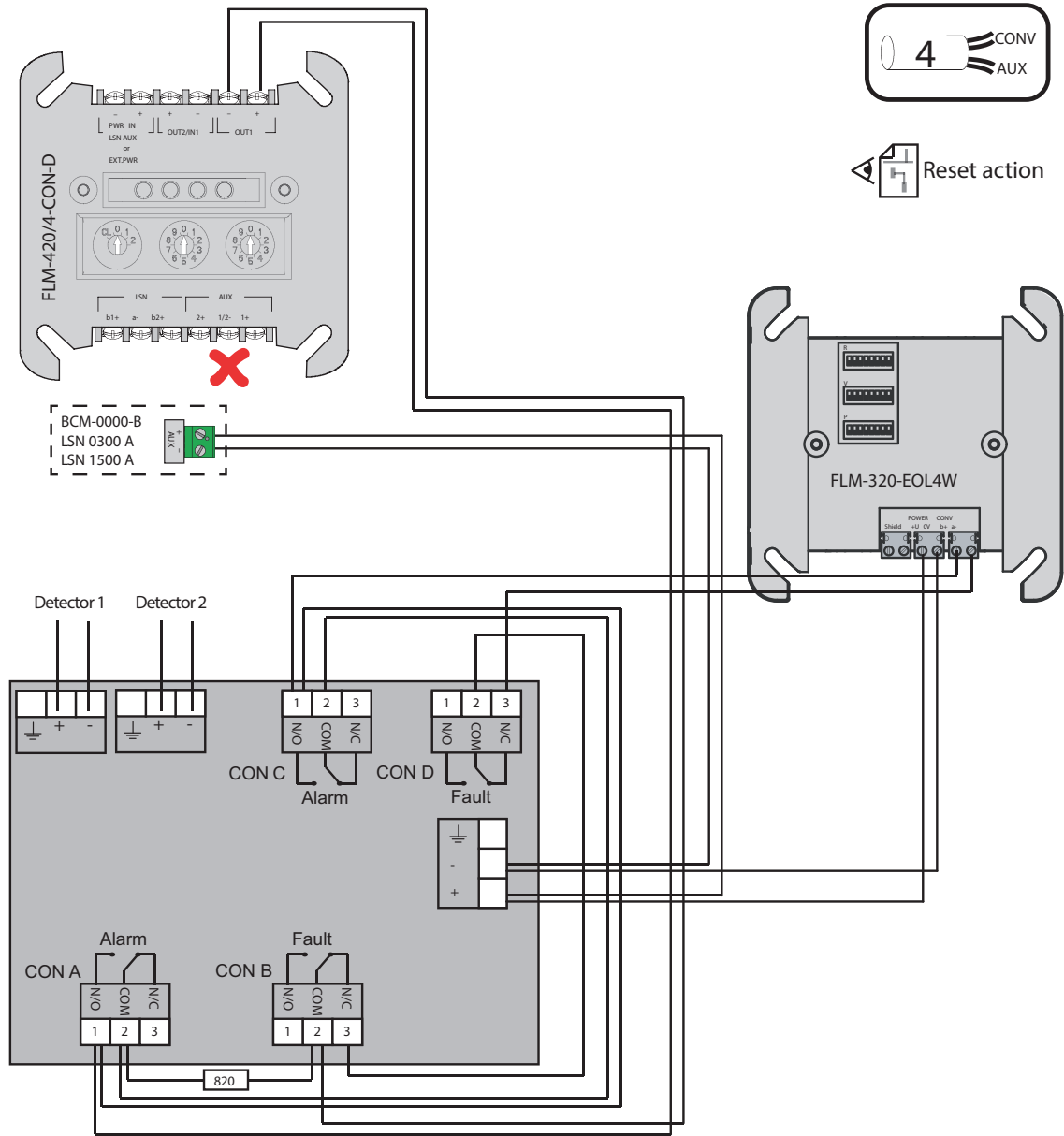
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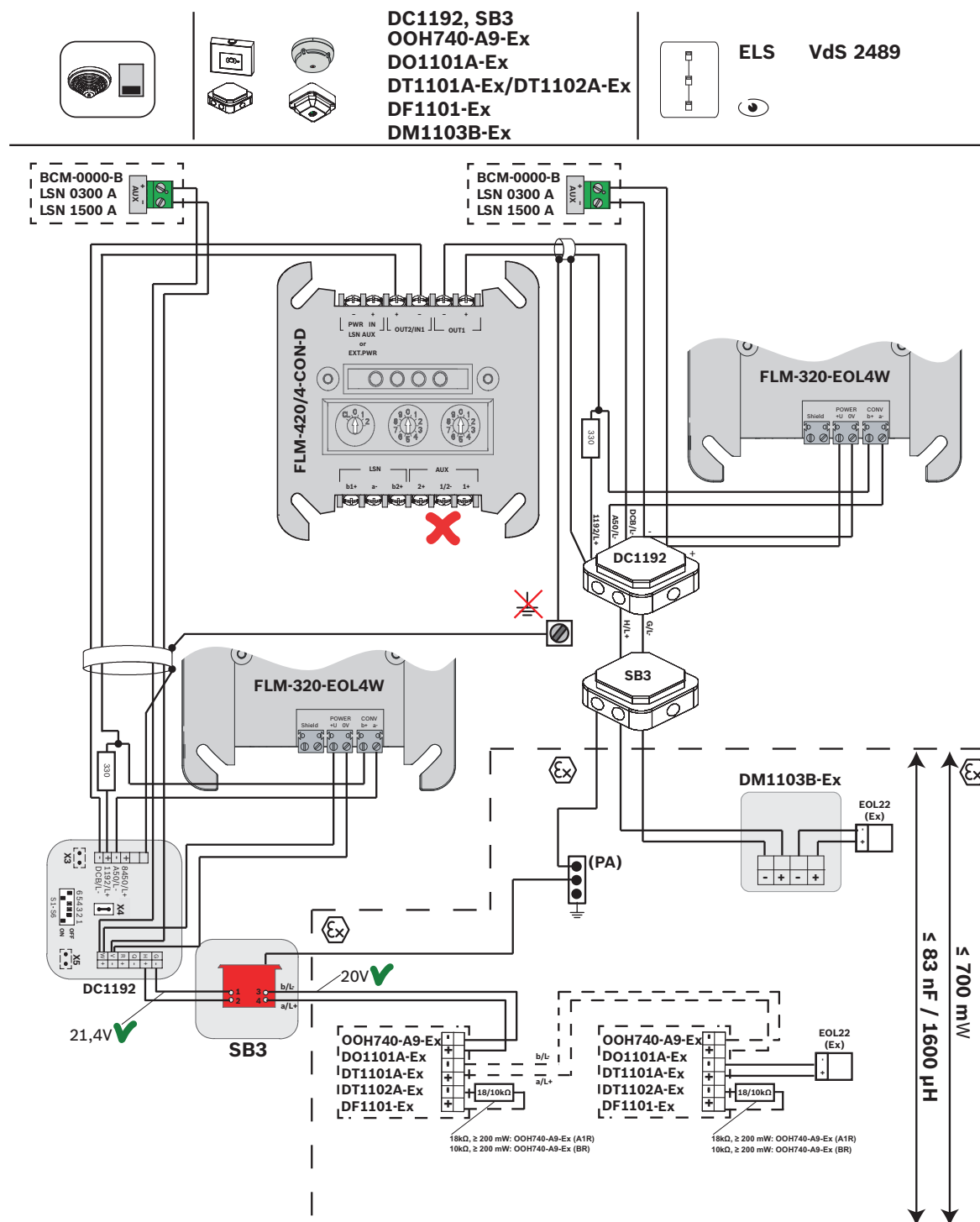
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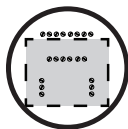


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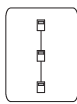
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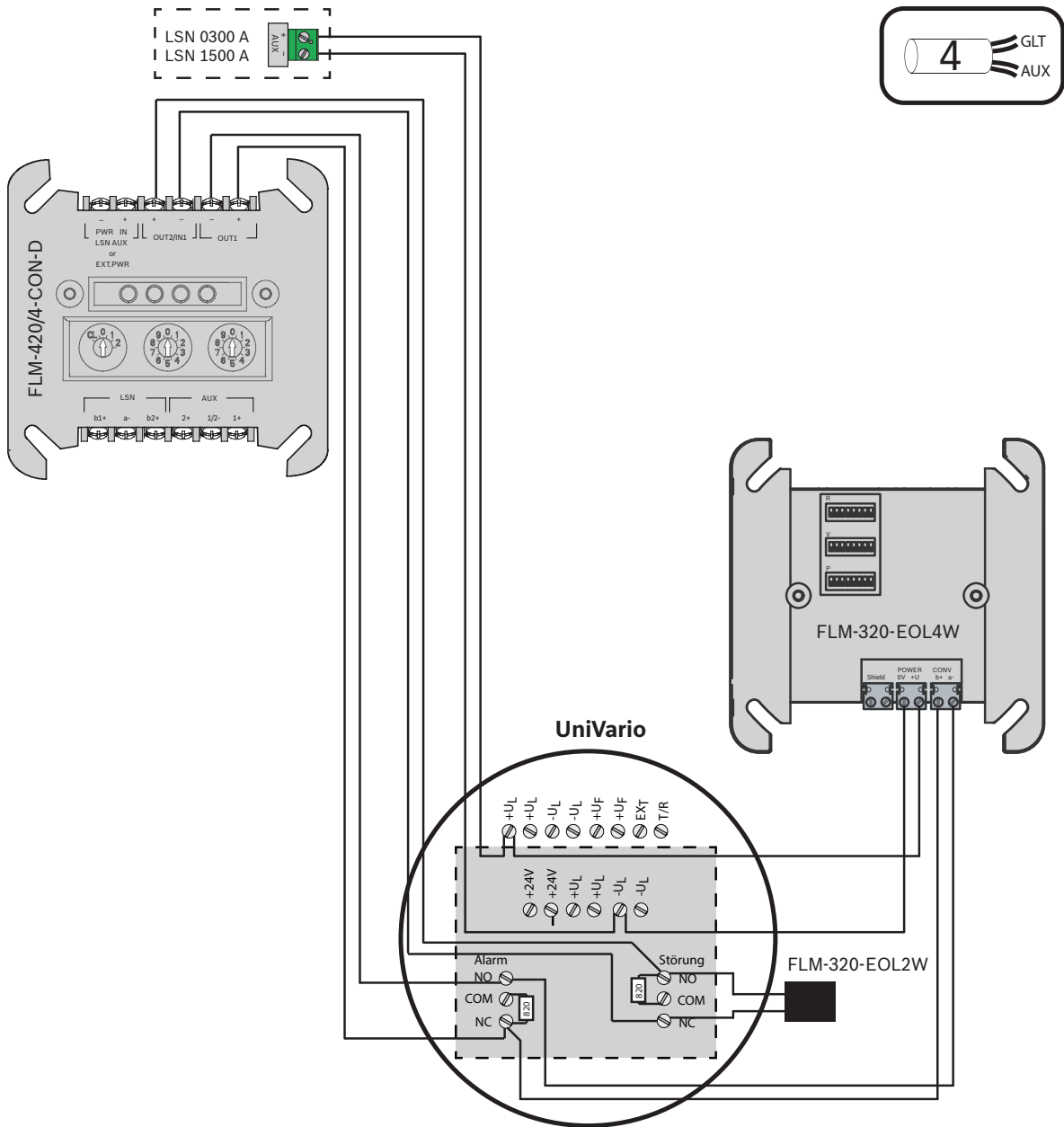




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